Quantitative Aptitude EBook

1. What percent of the total area of the circular disk is colored red?
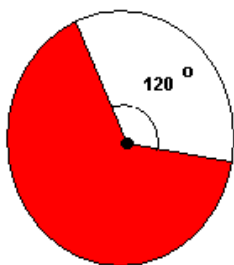
(a) 66.3%

(b) 66.5%

(c) 66.7%

(d) 67%

Answer: c: Total area of disk:

Ad = pi * r ^{2}

Angle t in radians of central angle of red sector

t = (360-120)* pi / 180 = (4/3) pi

Area of red sector:

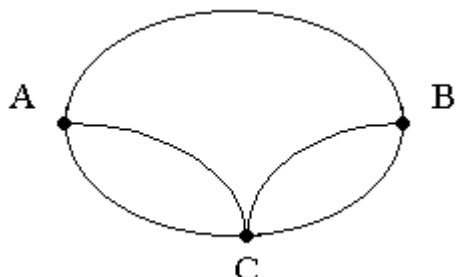**As = (1/2) t * r 2**

Percentage of total area in red

P = [(1/2) t * r 2] / [pi * r 2]
= 4 / 6 = 66.7% (3 significant digits)

2.

Amy has to visit towns B and C in any order. The roads connecting these towns with her home are shown on the diagram. How many different routes can she take starting from A and returning to A, going through both B and C (but not more than once through each) and not travelling any road twice on the same trip?
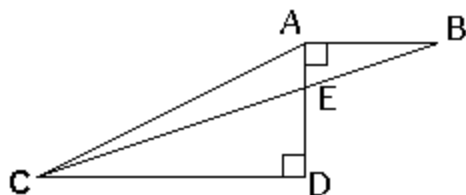
(a) 10

(b) 8

(c) 6

(d) 4

Answer: b: Amy can travel clockwise or anticlockwise on the diagram. Clockwise, she has no choice of route from A to B, a choice of one out of two routes from B to C, and a choice of one out of two routes from C back to A. This gives four possible routes.
Similarly, anticlockwise she has four different routes.
Total routes = 8

3.

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In the figure above AD = 4, AB = 3 and CD = 9. What is the area of triangle AEC ?

(a) 18

(b) 13.5

(c) 9

(d) 4.5

Answer: d: If we take AE as the base of triangle AEC, then the height is CD.
The height of the triangle is therefore, 9 (given).
To find the base we need to see that triangles AEB and CDE are similar. The ratio
AB: CD, is therefore equal to the ratio AE: ED. The given information shows that
the ratio is 3:9, or 1:3.
Now dividing AD (4) in this ratio gives us AE as 1.
The area of AEC = ½ base x height
=1/2 x 9 = 4.5

4.
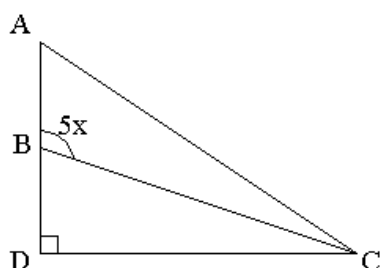
Which of the following could be a value of x, in the diagram above?

(a) 10

(b) 20

(c) 40

(d) 50

Answer: b: The marked angle, ABC must be more than 90 degrees because it is
the external angle of triangle BDC, and must be equal to the sum of angles BDC
(90) and DCB.

Also ABC is not a straight line and must be less than 180.
Therefore 90 < 5x < 180
The only value of x which satisfies this relation is 20.

5. If line l is the perpendicular bisector of the line segment with endpoints (2,0) and (0,-2), what is the slope of line l?

(a) 2

(b) 1

(c) 0

(d) -1
Answer:
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6. The front, side, and bottom faces of a rectangular solid have areas of 24 square centimeters, 8 square centimeters, and 3 square centimeters, respectively. What is the volume of the solid, in cubic centimeters?

(a) 24

(b) 96

(c) 192

(d) 288
Answer:

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a: One way to determine the volume of the solid is to determine the length ℓ, width w, l height h of the solid, in centimeters, and then apply the formula $V = \ell wh$ to compute the volume. Let ℓ, w, and h represent the length, width, and height, in centimeters, respectively, of the solid. The area of the front face of the solid is $\ell h = 24$ square centimeters, the area of the side face is $wh = 8$ square centimeters, and the area of the bottom face is $\ell w = 3$ square centimeters. Elimination of h by using the first two equations gives $\dfrac{\ell h}{wh} = \dfrac{24}{8}$, which

simplifies to $\dfrac{\ell}{w} = 3$, or $\ell = 3w$. Substitution of $3w$ for ℓ in the third equation gives $(3w)w = 3$, or $3w^2 = 3$, so $w = 1$ (since only positive values of w make sense as measurements of the length of any edge of a rectangular solid). Substitution of 1 for w in the equation $wh = 8$ gives $h = 8$, and substitution of 8 for h in the equation $\ell h = 24$ gives $8\ell - 24$, so $\ell - 3$. Therefore, the volume V of the solid, in cubic centimeters, is $V = (3)(1)(8) = 24$.

Alternatively, one can recognize that the square of the volume of a rectangular solid is the product of the areas of the front, side, and bottom faces of the solid. That is, squaring both sides of the formula $V = \ell wh$ gives $V^2 = \ell wh\,\ell wh = (\ell w)(hl)(wh)$. Therefore, in this case, $V^2 = (3)(24)(8) = 576$, so $V = \sqrt{576} = 24$. Note that it is not necessary to solve for the values of ℓ, w, and h.

7.
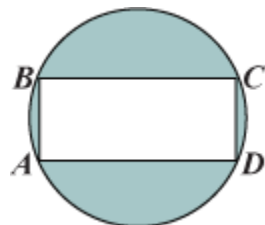
Rectangle ABCD is inscribed in the circle shown above. If the length of side AB is 5 and the length of side BC is 12, what is the area of the shaded region?

(a) 40.28

(b) 53.1

(c) 72.7

(d) 78.5

Answer:

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c: The area of the shaded region can be found by subtracting the area of rectangle $ABCD$ from the area of the circle. To determine the area of the circle, first find the radius r, and then compute the area πr^2. Since rectangle $ABCD$ is inscribed in the circle, $\angle ABC$ is an inscribed right angle, and thus $\overline{AC}$ is a diameter of the circle. Applying the Pythagorean theorem to right triangle ABC, one finds the length of side $\overline{AC}$ is

$\sqrt{5^2 + 12^2} = \sqrt{169} = 13$ Thus the radius of the circle is $\frac{13}{2}$, and the area of the circle is

$\pi\left(\frac{13}{2}\right)^2 = \frac{169}{4}\pi$. The area of rectangle $ABCD$ is $5 \times 12 = 60$, and therefore, the area of

the shaded region is $\frac{169}{4}\pi - 60 \approx 72.7$.

8. On a regular six-sided die, what is the probability that you will roll an even number if you throw the die?

(a) 1/6

(b) 1/3

(c) 1/2

(d) 5/6

Answer: c: The correct answer is 1/2.
There are six numbers on a die: 1, 2, 3, 4, 5, and 6. There are three even numbers on the die: 2, 4, and 6. 3 out of six numbers are even. 3/6 reduces to 1/2.

9. Let's say you and your friend play a game that involves several coin flips. You flip three coins at the same time. If all three coins come up the same (all heads or all tails), your friend wins. Otherwise, you win. What is the probability that you win?

(a) 3/4

(b) 1/2

(c) 3/8

(d) ¼

Answer: a: The correct answer is 3/4.

A quick way of going about this problem is determining the probability that one of your friend's outcomes will appear. The probability of multiple events happening is equal to the product of the probability of each single event. The probability of flipping heads is 1/2, so the probability of flipping three heads in a row would be (1/2 * 1/2 * 1/2), or 1/8. The same thing occurs in the tails. (1/2 * 1/2 * 1/2) is equal to 1/8. The probability of your friend winning is 2/8, or 1/4. Subtract 1/4 from 1 to get 3/4, the probability of you winning.

10. A spinner is divided into five equal sections, with each section having a different number from 1-5 written on it. When you spin the spinner once, the arrow lands on 1. What is the probability that the spinner lands on 1 when you spin it again?

(a) 2/5

(b) 1/25

(c) 1/5

(d) 0

Answer: c:
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11. You play a game in which you flip a coin until you get tails. Each time your coin comes up heads, you win $200. If you play the game only once, what is the probability that you make exactly $1000?

(a) 1/2

(b) 1/32

(c) 1/64

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(d) 1/16

Answer: c: The correct answer was 1/64.

You have to flip heads five times in a row to win $1000. The probability of flipping heads once is 1/2, so the probability of flipping heads five times would be (1/2 * 1/2 * 1/2 * 1/2 * 1/2), or 1/32. However, the game is not over yet. In order to end the game, you must now flip tails. The probability of that is 1/2. 1/2 * 1/32 = 1/64.

12. A spinner is divided into twelve equal sections and each section is then labeled with a different number from one to twelve. What is the probability of spinning a composite number if you spin the spinner once?

(a) 5/12

(b) 1/2

(c) 7/12

(d) 1/3

Answer: b: The correct answer was 1/2.

A composite number is a number with more than two factors. We see that 4, 6, 8, 9, 10, and 12 are composite when we look at their factors. 6 out of the 12 numbers are composite. 6/12 simplifies to 1/2.

13. In the figure below, each side of square ABCD is divided into three equal parts. If a point is chosen at random inside the square, what is the probability it will be in the shaded region?
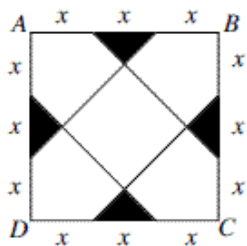

(a) 1/9

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(b) 1/8

(c) 1/6

(d) ¼

Answer: Since the answer doesn't depend on the value of x (the probability will be the same no matter what x is), let x = 1. Then the area of the whole square is 3² = 9. The area of each shaded triangle or of all the white sections can be calculated, but there's an easier way: notice that, if you slide the four shaded triangles together, they form a square of side 1. Therefore, the total shaded area is 1, and so the shaded area is 1/9 of the total area and the probability that the chosen point is in the shaded area is 1/9 (A).
The idea of subtracting a part from the whole works with line segments as well as areas.

14. In the figure below, the circle with center O is inscribed in square ABCD. Line segment AO intersects the circle at P. What is the length of AP ?

(a) 1

(b) $2 - \sqrt{2}$
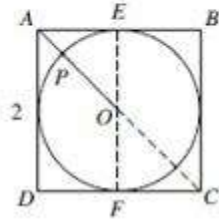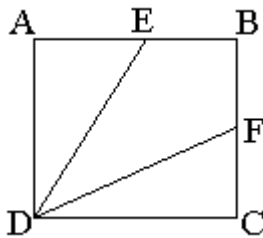
(c) $1 - \dfrac{\sqrt{2}}{2}$

(d) $\sqrt{2} - 1$
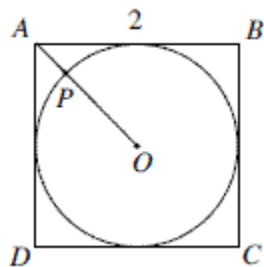
Answer:

Solution. First use TACTIC 4 and draw some lines. Extend $\overline{AO}$ to form diagonal $\overline{AC}$. Then, since $\triangle ADC$ is an isosceles right triangle, $AC = 2\sqrt{2}$ (KEY FACT J8) and AO is half of that, or $\sqrt{2}$. Then draw in diameter $\overline{EF}$ parallel to $\overline{AD}$. Since the diameter is 2 ($EF = AD = 2$), the radius is 1. Finally, subtract: $AP = AO - PO = \sqrt{2} - 1$ (E).

15.

ABCD is a square of side 3, and E and F are the mid points of sides AB and BC respectively. What is the area of the quadrilateral EBFD ?

(a) 2.25

(b) 3

(c) 4

(d) 4.5

Answer:

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16.

5A
BC
D43

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In the above correctly worked addition sum, A,B,C and D represent different digits, and all the digits in the sum are different. What is the sum of A,B,C and D?
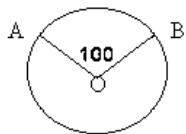
(a) 23

(b) 22

(c) 18

(d) 16
Answer:
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17.

If the radius of the circle with centre O is 7 and the measure of angle AOB is 100, what is the best approximation to the length of arc AB ?
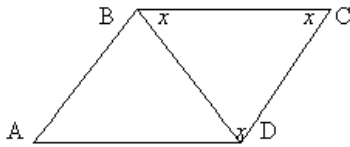
(a) 9

(b) 10

(c) 11

(d) 12
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18.

ABCD is a parallelogram. BD = 2. The angles of triangle BCD are all equal. What is the perimeter of the parallelogram?

(a) 12

(b) 9√3

(c) 9

(d) 8

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19. If the product of 6 integers is negative, at most how many of the integers can be negative?

(a) 2

(b) 3

(c) 4

(d) 5

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20. If a positive integer n, divided by 5 has a remainder 2, which of the following must be true?

I n is odd
II n + 1 cannot be a prime number

III (n + 2) divided by 7 has remainder 2

(a) None

(b) I only

(c) I and II only

(d) II and III only
Answer: a:
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21. A solid cube of side 6 is first painted pink and then cut into smaller cubes of side 2. How many of the smaller cubes have paint on exactly 2 sides?

(a) 30

(b) 24

(c) 12

(d) 8
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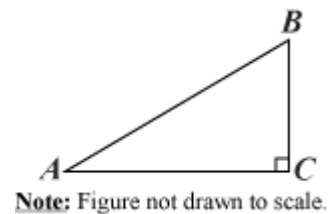
22.

Note: Figure not drawn to scale.

In the figure above, triangle ABC has a right angle at C If the length of side AC is 10 and the measure of angle BAC is 22o, what is the length of side BC?

(a) 3.7

(b) 4.0

(c) 5.8

(d) 6.8

Answer:
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23. A bag contains '6' red, 4 white and 8 blue balls. If three balls are drawn at random, find the probability, that '2' are blue and 1 is red

(a) 1/34

(b) 3/34

(c) 5/34

(d) 7/34
Answer:
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24. If from a pack of '52' playing cards one card is drawn at random, what is the probability that it is either a kind or a queen?

(a) 1/3

(b) 2/3

(c) 1/4

(d) 1/52
Answer:
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25. You toss a coin four times. The first, second and third toss are heads. What's the probability of the fourth toss also being heads?

(a) 1/4

(b) 1/16

(c) 1/8

(d) ½

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26. I choose two different numbers between 1 and 10 (1 and 10 are included). You try to guess the two numbers. How much chance do you have to guess both numbers correctly in one attempt?

(a) 1/90

(b) 1/45

(c) 1/100

(d) 1/25
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27. What is the value of –2 ——————————— 3?

(a) -11

(b) -7

(c) 0

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(d) 6

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28. For what value of x does x ———————— 5 = x ———————— 10?

(a) -5

(b) -1

(c) 0

(d) 1

Answer:

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29. Sterling Silver is 92.5% pure silver. How many grams of Sterling Silver must be mixed to a 90% Silver alloy to obtain a 500g of a 91% Silver alloy?

(a) 100 grams

(b) 150 grams

(c) 200 grams

(d) 250 grams

Answer:

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30. How many Kilograms of Pure water is to be added to 100 Kilograms of a 30% saline solution to make it a 10% saline solution.

(a) 200 Kilograms

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(b) 250 Kilograms

(c) 300 Kilograms

(d) 400 Kilograms
Answer: a:
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31. A 50 ml after-shave lotion at 30% alcohol is mixed with 30 ml of pure water. What is the percentage of alcohol in the new solution?

(a) 16.75%

(b) 17.75%

(c) 18.75%

(d) 20.75%
Answer:
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32. You add x ml of a 25% alcohol solution to a 200 ml of a 10% alcohol solution to obtain another solution. Find the amount of alcohol in the final solution in terms of x. Find the ratio, in terms of x, of the alcohol in the final solution to the total amount of the solution. What do you think will happen if x is very large? Find x so that the final solution has a percentage of 15%.

(a) 64 ml

(b) 200 ml

(c) 300 ml

(d) 400 ml

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Answer:
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33. What is the least positive integer that has the same number of positive factors as 175?

(a) 8

(b) 10

(c) 12

(d) 16

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34. If a and b are real numbers, i2=-1, and (a+b)+5i=9+ai, what is the value of b?

(a) 4

(b) 5

(c) 9

(d) 4+5i

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35. What are all values of x for which $4 - x^2 \geq x - 2$?

(a) $x \geq -3$

(b) $-5 \leq x \leq 0$

(c) $-3 \leq x \leq 2$

(d) $X \le -3$

Answer:

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36. Twenty students have each sampled one or more of three kinds of candy bars that a school store sells. If 3 students have sampled all three kinds, and 5 have sampled exactly two kinds, how many of these students have sampled only one kind?
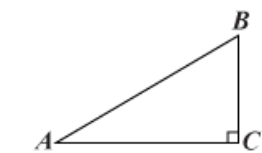
(a) 8

(b) 12

(c) 15

(d) 17

Answer:

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37.

Note: Figure not drawn to scale.

In the figure above, triangle ABC has a right angle at C If the length of side AC is 10 and the measure of angle BAC is 22o, what is the length of side BC?

(a) 3.7

(b) 4.0

(c) 5.8

(d) 6.8

Answer:
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38. Marigolds are to be planted inside a circular flower garden so that there are 4 marigolds per square foot. The circumference of the garden is 20 feet. If marigolds are available only in packs of 6, how many packs of 6 flowers are needed?

(a) 6

(b) 13

(c) 14

(d) 22
Answer:
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39. There is a box containing blue, red, yellow, and green pencils. You randomly draw one of the 50 pencils. You are 2.3 times more likely to draw a green pencil than you are to draw a blue pencil. There are 8 more green pencils than there are red pencils. If you have a 4% chance of drawing a yellow pencil, then what are the odds of drawing a red pencil?

(a) 7/25

(b) 1/5

(c) 13/50

(d) 3/10
Answer: d:
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40. You draw two random cards from a standard 52-card deck. What is the probability that you will draw at least one ace?

(a) 33/221

(b) 29/221

(c) 2/13

(d) 3/26

Answer: a: The correct answer is 33/221.

41. You randomly flip four coins. What is the probability that you will get 2 heads and 2 tails?

(a) 3/16

(b) 1/16

(c) 3/8

(d) 1/8

Answer: c:

42. You randomly roll two dice. What is the probability that the product of the two numbers rolled will equal a square number?

(a) 1/9

(b) 2/9

(c) 7/36

(d) 5/18

Answer:

43. If 15 workers can paint a certain number of houses in 24 days, how many days will 40 workers take, working at the same rate, to do the same job?

(a) 7

(b) 8

(c) 9

(d) 10

Answer:

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44. If P and Q are points on circle O, what is the value of x?
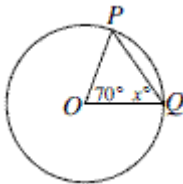
(a) 45

(b) 50

(c) 55

(d) 60

Answer:

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45. In the figure below, square ABCD is inscribed in circle O. If the area of the square is 50, what is the circumference of the circle?

(a) 5pi

(b) 10pi

(c) 25pi
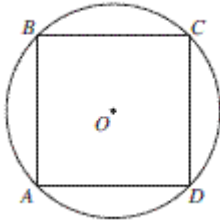
(d) 50pi
Answer:
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46. What is the area of the shaded region?
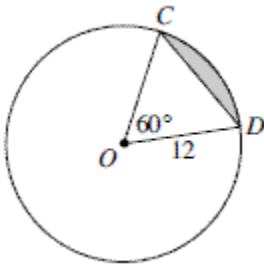
(a) $144p - 144\sqrt{3}$

(b) $144p - 36\sqrt{3}$

(c) $144p - 72$

(d) $24p - 36\sqrt{3}$
Answer:
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47. A is the center of a circle whose radius is 10, and B is the center of a circle whose diameter is 10. If these two circles are tangent to one another, what is the area of the circle whose diameter is AB?

(a) 30p

(b) 56.25p

(c) 100p

(d) 225p
Answer:
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48. In the figure below, square ABCD is inscribed in a circle whose center is O and whose radius is 4. If EO ? AB at F, what is the length of EF?
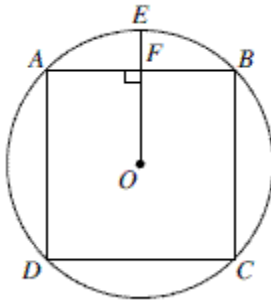
(a) 2

(b) $\sqrt{2}$

(c) 2 $\sqrt{2}$

(d) 4 −2 $\sqrt{2}$
Answer:
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49. The price of a pair of trousers was decreased by 22% to $30. What was the original price of the trousers?

(a) $37.5

(b) $38.5

(c) $39.5

(d) $40.5
 Answer:
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50. The price of an item changed from $120 to $100. Then later the price decreased again from $100 to $80. Which of the two decreases was larger in percentage term?

(a) First

(b) Second

(c) Both

(d) Cannot say
Answer: b:
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51. The price of an item decreased by 20% to $200. Then later the price decreased again from $200 to $150. What is the percent of decrease from the original price to the final price of $150?

(a) 25%

(b) 30%

(c) 35%

(d) 40%

Answer:
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52. A number increases from 30 to 40 and then decreases from 40 to 30. Compare the percent of increase from 30 to 40 and that of the decrease from 40 to 30.

(a) 33%, 25%

(b) 33% , 32%

(c) 25%, 32%

(d) 25%, 33%
Answer:
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53. There are 3 different roads from city A to city B and 2 different roads from city B to city C. In how many ways can someone go from city A to city C passing by city B?

(a) 2

(b) 3

(c) 5

(d) 6
Answer:
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54. A man has 3 different suits, 4 different shirts and 5 different pairs of shoes. In how many different ways can this man wear a suit, a shirt and a pair of shoes?

(a) 3

(b) 12

(c) 35

(d) 60
Answer:
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55. In a company, ID cards have 5 digit numbers. How many ID cards can be formed if repetion of the digit is allowed?

(a) 50

(b) 1000

(c) 10000

(d) 100,000
Answer: d:
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56. In a company , ID cards have 5 digit numbers. How many ID cards can be formed if repetition of the digit is not allowed?

(a) 10,240

(b) 20,240

(c) 30,240

(d) 40,240
Answer:
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57. In a certain country, licence plate numbers have 3 letters folllowed by 4 digits. How many different licence plate numbers can be formed? (letters and digits may be repeated).

(a) 36

(b) 260

(c) 175,760,0

(d) 175,760,000
Answer:
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58. The distance from town A to town B is five miles. C is six miles from B. Which of the following could be the distance from A to C?

I 11
II 1
III 7

(a) I only

(b) I and II only

(c) II and III only

(d) I, II, or III
Answer:
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59. √5 percent of 5√5 =

(a) 0.05

(b) 0.25

(c) 0.5

(d) 2.5
Answer:
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60. If pqr = 1 , rst = 0 , and spr = 0, which of the following must be zero?

(a) P

(b) Q

(c) R

(d) S
Answer: d:
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61.

$$\frac{6^5 - 6^4}{5} =$$

(a) 1/5

(b) 6^3

(c) 6^4 / 5

(d) 6^4
Answer:
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62. -20 , -16 , -12 , -8 .... In the sequence above, each term after the first is 4 greater than the preceding term. Which of the following could not be a term in the sequence?

(a) 0

(b) 200

(c) 400

(d) 762
Answer:
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63. If $f(x) = x^2 - 3$, where x is an integer, which of the following could be a value of $f(x)$?

I 6
II 0
III -6

(a) I only

(b) I and II only

(c) II and III only

(d) I, II and III
Answer:
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64. For how many integer values of n will the value of the expression 4n + 7 be an integer greater than 1 and less than 200?

(a) 48

(b) 49

(c) 50

(d) 51

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65. 12 litres of water a poured into an aquarium of dimensions 50cm length , 30cm breadth, and 40 cm height. How high (in cm) will the water rise? (1 litre = 1000cm³)

(a) 6

(b) 8

(c) 10

(d) 20
Answer: b:
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66. Six years ago Anita was P times as old as Ben was. If Anita is now 17 years old, how old is Ben now in terms of P ?

(a) 11/P + 6

(b) P/11 +6

(c) 17 - P/6

(d) 17/P
Answer:
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67. Ashley throws two normal, six-faced dice. How much chance does she have for a total of at least 11?

(a) 1/6

(b) 2/11

(c) 1/12

(d) 1/18
Answer:
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68. Eight cardboard boxes are standing on the table. Two among them contain a present, the other six are empty. You are allowed to open two boxes. How much chance do you have to find at least one present?

(a) 7/16

(b) 9/16

(c) 15/28

(d) 13/28
Answer:
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69. Peter, Mark, Anne and Rose are four good friends. They belong to a group of sixty pupils who are to be divided at random into three classes of twenty. What's the probability of all four friends sharing the same class?

(a) 1/12

(b) 1/81

(c) 19x18x17/59x58x57

(d) 1/64
Answer:
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70. I have thirty socks in total disorder in my closet. Ten are black, ten are red and ten are brown, but I can't distinguish the colours in the dark. How many socks do I have to take to have at least one pair of the same colour?

(a) 12

(b) 11

(c) 4

(d) 3
Answer:
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71. There are seven cups of tea. Two among them contain a deadly poison that acts within an hour. You and I both drink one cup simultaneously. How big is the chance that we both survive?

(a) 10/21

(b) 25/49

(c) 11/21

(d) 24/49
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72. If someone answers these ten multiple choice questions totally at random, what is the chance that he has all answers wrong?

(a) 1/1,048,576

(b) 243/1,024

(c) 1/1,024

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(d) 59,049/1,048,576
Answer:
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73. Find the x intercept of the graph of the equation.

2x - 4y = 9

(a) 3/2

(b) 7/2

(c) 9/2

(d) 11/2
Answer:
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74. Evaluate f(2) - f(1) if

f(x) = 6x + 1

(a) 4

(b) 5

(c) 6

(d) 7
Answer:
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75. Find the slope of the line passing through the points (-1, -1) and (2 , 2).

(a) 1/2

(b) 1

(c) 3/2

(d) 2
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76. Find the slope of the line

5x - 5y = 7

(a) 1/2

(b) 3/4

(c) 1

(d) 3/2
Answer:
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77. Find the equation of the line that passes through the points (-1 , -1) and (-1 , 2).

(a) x = 1

(b) y = -1

(c) x = -1

(d) x = -2
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78.

The chart shows the amount paid in bonuses to the employees of a certain firm.

Bonus paid to an employee ($)	50	100	150	200
Number of employees	7	37	4	2

The average bonus per employee was

(a) 81

(b) 91

(c) 100

(d) 101
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79. Refer to the chart from the previous question.
If median bonus amount = m, mean bonus amount = n, and modal bonus amount = p, which of the following represents the correct ordering of m, n and p?

(a) m < n < p

(b) m < n = p

(c) m = p < n

(d) p < m < n
Answer:
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80. Which of the following is the equation of a line passing through the origin and parallel to the line $2x - y = 5$?

(a) $5x - y = 0$

(b) $2x - y = 0$

(c) $2x + y = 5$

(d) $2x + y = 0$

Answer: b

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81.

```
3 | 7 9
4 | 4 5 6 6 7
5 | 0 2 3 3 4 4 4 8 8
6 | 0 1 5 5
```

$3 \mid 7 = 37$ inches

The stem-and-leaf plot above gives the height, in inches, of evergreens in a nursery. What percent of the evergreens are over inches tall?

(a) 20%

(b) 25%

(c) 30%

(d) 40%

Answer:

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82. A band wants to distribute its music on compact discs (CDs). The equipment to produce the CDs costs $250 , and blank CDs cost $5.90 for a package of 10. Which

of the following represents the total cost, in dollars, to produce n CDs, where n is a multiple of 10?

(a) (250+0.9)n

(b) 250+0.59n

(c) (250+5.90)n

(d) 250+5.90n
Answer:
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83. What is the probability, that a number selected from 1, 2, 3, --- 25, is a prime number, when each of the numbers is equally likely to be selected.

(a) 7/25

(b) 8/25

(c) 9/25

(d) 2/5
Answer:
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84. Two dice are thrown simultaneously. Find the probability of getting the same number on both dice

(a) 1/3

(b) 1/4

(c) 1/5

(d) 1/6

Answer:

85. A region inside a semicircle of radius r is shaded. What is the area of the shaded region?

(a) $1pr^2/4$

(b) $1pr^2/3$

(c) $1pr^2/2$

(d) $2pr^2/3$

Answer:

86. The average of 5, 10, 15, and x is 20. What is x?

(a) 20

(b) 25

(c) 45

(d) 50

Answer:

87. If 25% of 220 equals 5.5% of w, what is w?

(a) 10

(b) 55

(c) 100

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(d) 1000

Answer:

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88. A jar contains only red and blue marbles. The ratio of the number of red marbles to the number of blue marbles is 5:3. What percent of the marbles are blue?

(a) 37.5%

(b) 50%

(c) 60%

(d) 62.5%

Answer:

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89. In the figure below, four semicircles are drawn, each centered at the midpoint of one of the sides of square ABCD. Each of the four shaded "petals" is the intersection of two of the semicircles. If AB = 4, what is the total area of the shaded region?

(a) 8π
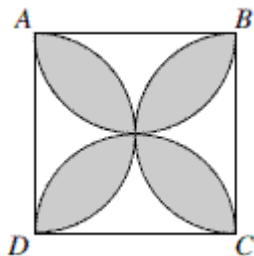
(b) $32 - 8\pi$

(c) $16 - 8\pi$

(d) $8\pi - 16c$

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Answer:
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90. In the figure below, diagonal EG of square EFGH is one-half of diagonal AD of square ABCD. What is the ratio of the area of the shaded region to the area of ABCD?
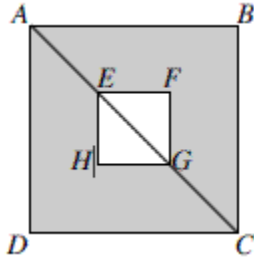
(a) $\sqrt{2}:1$

(b) 3:4

(c) $\sqrt{2}:2$

(d) 1:2

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91. Jim receives a commission of 25¢ for every $20.00 worth of merchandise he sells. What percent is his commission?

(a) 1 1/4 %

(b) 2 1/2 %

(c) 5 %

(d) 25 %

Answer:
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92. From 1990 to 2000, Michael's weight increased by 25%. If his weight was W kilograms in 2000, what was it in 1990?

(a) 1.75 W

(b) 1.25 W

(c) 1.20 W

(d) 0.80 W
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93. If (4i - 8)/5 = i - 4, then the value of 'i' is

(a) 64

(b) 3

(c) 12

(d) 256
Answer:
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94. Factor 5(x^3)(y^2)(z) + 100(x^2)(y^3)(z^2) by factoring out their greatest common factor. NOTE: The parentheses have been added to distinguish terms from each other. Factor as normal

(a) 5xyz(x^2y + 20xy^2z)

(b) 5(x^3y^2z + 20x^2y^3z^2)

(c) 5x^5y^5z^3(x + 20y)

(d) (5(x^2)(y^2)(z))(x + 20yz)

Answer:
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95. Factor the polynomial $4x^2 - 25$, using the difference of two perfect squares

(a) $(2x + 5)(2x - 5)$

(b) $(2x^2 + 5)(2x^2 - 5)$

(c) $(4x + 5)(4x - 5)$

(d) $(2x + 25)(2x - 25)$

Answer:
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96. Completely factor $2x^2 - 50$

(a) $2(x^2 - 25)$

(b) $x^2 - 25$

(c) $(2x - 10)(x + 5)$

(d) $2(x + 5)(x - 5)$

Answer:
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97. Factor the perfect square polynomial $25x^2 + 90x + 81$

(a) $(25x + 9)(x + 9)$

(b) $(5x + 9)^2$

(c) $(25x + 1)(x + 81)$

(d) none of these

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Answer:
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98. Factor a^2 + 11a + 24

(a) (a + 1)(a + 24)

(b) (a + 8)(a + 3)

(c) (a + 2)(a + 12)

(d) (a + 4)(a + 6)

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99. Factor the trinomial b^2 + 6b - 16

(a) (b + 4)(b - 4)

(b) (b + 8)(b - 2)

(c) (b - 8)(b + 2)

(d) (b + 16)(b - 1)

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100. Completely factor 4b^2 + 16b + 16

(a) (4b + 8)(b + 2)

(b) 4(b + 2)^2

(c) (2b + 4)^2

(d) none of these

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101. What is the probability for a family with three children to have a boy and two girls (assuming the probability of having a boy or a girl is equal)?

(a) 1/8

(b) 1/4

(c) 1/2

(d) 3/8
Answer:
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102. In how many ways can you sit 8 people on a bench if 3 of them must sit together?

(a) 720

(b) 2160

(c) 2400

(d) 4320
Answer:
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103. In how many ways can you sit 7 people on a bench if one person won't sit on the middle seat or on either end?

(a) 720

(b) 1720

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(c) 2880

(d) 5040

Answer:

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104. In a jar there are 15 white balls, 25 red balls, 10 blue balls and 20 green balls. How many balls must be taken out in order to make sure we took out 8 of the same color?

(a) 8

(b) 23

(c) 29

(d) 32

Answer:

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105. In a jar there are 21 white balls, 24 green balls and 32 blue balls. How many balls must be taken out in order to make sure we have 23 balls of the same color?

(a) 23

(b) 46

(c) 57

(d) 66

Answer:

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106. Solve the equation

$5(-3x - 2) - (x - 3) = -4(4x + 5) + 13$

(a) x =1

(b) x=2

(c) x=3

(d) All values of x
Answer:
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107. Simplify the expression

$2(a -3) + 4b - 2(a -b -3) + 5$

(a) 6a + 5

(b) 6b + 1

(c) 6b + 5

(d) 6a + 1
Answer:
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108. If x <2, simplify

$|x - 2| - 4|-6|$

(a) -x -22

(b) x -22

(c) -x +22

(d) x +22

Answer:
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109. Find the distance between the points (-4 , -5) and (-1 , -1).

(a) 2

(b) 3

(c) 4

(d) 5
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110. Find the equation of the line passing through the points (2 , 3) and (4 , 1).

(a) y = x + 5

(b) -y = -x + 5

(c) y = -x + 5

(d) y = -x
Answer: c:
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111. If two people who are both carriers for a genetically inherited fatal recessive disease decide to become parents, what will be the odds that their children will also be carriers?

(a) 1 out of 4

(b) 2 out of 4

(c) 3 out of 4

(d) 4 out of 4
Answer:
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112. If the sum of four consecutive odd integers is s, then, in terms of s, what is the greatest of these integers?

(a) (s - 12)/4

(b) (s - 6)/4

(c) (s + 6)/4

(d) (s + 12)/4
Answer:
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113. If a school cafeteria needs c cans of soup each week for each student, and if there are s students in the school, for how many weeks will x cans of soup last?

(a) cx/s

(b) xs/c

(c) s/cx

(d) x/cs
Answer:
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114. If p painters can paint h houses in 4 days, how many houses can 6 painters, working at the same rate, paint in 2 days?

(a) h/3p

(b) 3hp/4

(c) hp/12

(d) 3h/p
Answer:
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115. Solve the equation

$|-2x + 2| -3 = -3$

(a) x = - 1

(b) x = 2

(c) x = 1

(d) x = 3
Answer: c:
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116. The circumference of a circle is equal to 72 pi. Find the radius of this circle.

(a) r = 6

(b) r = 16

(c) r = 36

(d) r = 46
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117. The length of a rectangular garden is 2 feet longer than 3 times its width. If the perimeter of the garden is 100 feet, find the width and the length of the garden.

(a) W = 12, L = 18

(b) W = 12, L = 38

(c) W = 22, L = 18

(d) W = 12, L = 36

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118. A rectangular field has a length 10 feet more than it is width. If the area of the field is 264, what are the dimensions of the rectangular field?

(a) x = 22 and y = 12

(b) x = 12 and y = 12

(c) x = 22 and y = 22

(d) x = 22 and y = 18

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119. A company has found that when x units of a product are manufactured and sold, its revenue is given by x 2 + 100 x dollars and its costs are given by 240 x + 500 dollars. How many units must be produced and sold to make a profit of 10,000 dollars?

(a) 194

(b) 196

(c) 54

(d) – 54
Answer:
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120. Joe worked part time for x hours and earned y dollars. How much does he earn if he works z hours?

(a) yz/x

(b) z/(xy)

(c) xyz

(d) zx/y
Answer:
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121. In a science test, a class of 30 students had an average of 80. The 20 girls in the class had an average of 85. What is the average of the 10 boys in the class?

(a) 60

(b) 70

(c) 80

(d) 85
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122. A box contains one of each of the bills: $1, $5, $10, $20, $50, and $100. If you randomly draw three bills, then what are the odds that the three bills add to $75?

(a) 1 in 120

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(b) 1 in 60

(c) 1 in 20

(d) 1 in 30

Answer:

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123. You are running from 3 police officers and there are 5 possible caves to hide in. You hide in a random cave before the officers see you. Each of the officers chooses a random cave to search. More than one officer can search the same cave. If there is a 100% chance a cop will find you if he searches your cave, then what are the odds you will be found?

(a) 61 out of 125

(b) 11 out of 25

(c) 3 out of 5

(d) 47 out of 75

Answer:

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124. You randomly draw 3 cards from a standard 52-card deck. What are the odds that you draw 3 different suits?

(a) 169/425

(b) 13/25

(c) 3/8

(d) 109/331

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Answer:
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125. A square has a side 5 centimeters shorter than the side of a second square. The area of the larger square is four times the area of the smaller square. Find the side of each square.

(a) 10, 5

(b) 11, 6

(c) 15, 10

(d) 20, 15

Answer:
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126. Find two numbers whose sum is 26 and whose product is 165.

(a) 12 and 14

(b) 10 and 16

(c) 11 and 15

(d) 13 and 13

Answer:
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127. The area of a rectangle is 15 square centimeters and the perimeter is 16 square centimeters. What are the dimensions of the rectangle?

(a) 3 and 5

(b) 1 and 15

(c) 7.5 and 2

(d) 3.75 and 4
Answer:
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128. The sum of two numbers is 20. The larger number is four less than twice the smaller number. What are the two numbers?

(a) 8, 12

(b) 10, 10

(c) 7, 13

(d) 6, 14
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129. The hypotenuse of a right triangle is 2 centimeters more than the longer side of the triangle. The shorter side of the triangle is 7 centimeters less than the longer side. Find the length of the hypotenuse.

(a) 5

(b) 12

(c) 15

(d) 17
Answer:
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130. The sum on an odd integer and twice its consecutive is equal to equal to 3757. Find the number.

(a) 1250

(b) 1251

(c) 1252

(d) 1253
Answer:
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131. The sum of the first and third of three consecutive even integers is 131 less than three times the second integer. Find the three integers.

(a) 129, 131, 133

(b) 130, 131, 133

(c) 131, 133, 135

(d) 133, 135, 137
Answer:
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132. Find four consecutive even integers so that the sum of the first two added to twice the sum of the last two is equal to 742.

(a) 118, 120, 122, 124

(b) 120, 122, 124, 126

(c) 122, 124, 126, 128

(d) 124, 126, 128, 130
Answer:
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133. When the smallest of three consecutive odd integers is added to four times the largest, it produces a result 729 more than four times the middle integer. Find the numbers

(a) 717, 719, 721

(b) 719, 721, 722

(c) 721, 723, 725

(d) 723, 725, 727

Answer:

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134. The original price of a shirt was $20. It was decreased to $15 . What is the percent decrease of the price of this shirt.

(a) 10%

(b) 15%

(c) 20%

(d) 25%

Answer:

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135. For a wall of a given material and of a fixed surface area, the rate of heat loss by conduction through the wall is inversely proportional to the thickness (T) of the wall, and directly proportional to the temperature difference (d) across the wall. The rate of heat loss could be given by which of the following expressions?

(a) 2d/T

(b) 2 T/d

(c) 2d + ½ T

(d) T/d
Answer:
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136.

Number of children	0	1	2	3
Number of families	13	24	36	27

Data were collected on the number of children per family in a
certain village and tabulated as shown above.

The average (mean) number of children per family in the village is approximately

(a) 2.4

(b) 2.0

(c) 1.8

(d) 1.5
Answer:
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137. Refer to the table provided in the previous question.
The difference between the median and the mode of the number of children per family is

(a) 2.5

(b) 2.0

(c) 1.5

(d) 0

Answer:

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138. If x is an integer, which of the following could be x^3?

I 1.25×10^{17}
II 12.5×10^{-12}
III 0.125×10^{-12}

(a) I only

(b) II only

(c) I and II only

(d) I and III only

Answer:

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139. At what point does the graph of 5x + 4y = 12 intersect the y-axis?

(a) (0, 3)

(b) (0, -3)

(c) (3, 0)

(d) (5, 0)

Answer:

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140.
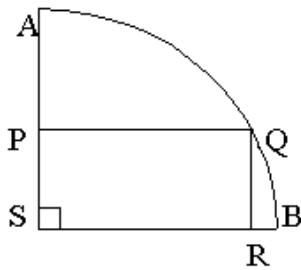
ASB is a quarter circle. PQRS is a rectangle with sides PQ = 8 and PS = 6. What is the length of the arc AQB ?

(a) 5p

(b) 10p

(c) 25

(d) 14
Answer:
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141. If x ¤ y = (x + y)² - (x - y)²
Then v5 ¤ v5 =

(a) 0

(b) 5

(c) 10

(d) 20
Answer:
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142.

A	B
2	5
3	10
4	17
5	26

Which of the following describes the relationship between A and B as shown in the pairs of numbers in the table above?

(a) B = A + 4

(b) B = 2A + 1

(c) B = 3A - 1

(d) B = A^2 + 1

Answer:

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143. The total weight of a tin and the cookies it contains is 2 pounds. After ¾ of the cookies are eaten, the tin and the remaining cookies weigh 0.8 pounds. What is the weight of the empty tin in pounds?

(a) 0.2

(b) 0.3

(c) 0.4

(d) 0.5

Answer:

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144.
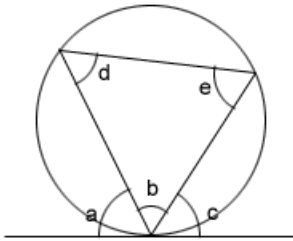
Which of the following pairs of angles must be equal?

(a) a and e only

(b) a and e, and c and d only

(c) c and d only

(d) d and e only

Answer:

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145. In a lottery of 50 tickets numbered from '1' to '50' two tickets are drawn simultaneously. Find the probability that: None of the tickets drawn have a prime number on it

(a) 3/7

(b) 16/35

(c) 17/35

(d) 18/35

Answer:

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146. A bag contains 30 tickets, numbered from '1' to '30'. Five tickets are drawn at random and arranged in ascending order. Find the probability that the third number is 20.

(a) 280/5277

(b) 285/5278

(c) 289/5278

(d) 289/5299
Answer:
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147. If '12' persons are seated at a round table, what is the probability that two particulars persons sit together?

(a) 1/11

(b) 2/11

(c) 3/11

(d) 4/11
Answer:
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148. 6 boys and 6 girls sit in a row randomly, find the probability that all the '6' girls sit together.

(a) 1/130

(b) 1/131

(c) 1/132

(d) 1/133

Answer:

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149. From a pack of 52 playing cards, three cards are drawn at random. Find the probability of drawing a king, a queen and a jack

(a) 1/5525

(b) 3/5525

(c) 7/5525

(d) 16/5525

Answer:

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150. A cube with edges 1/2 inch long is shown below. What is the length, in inches, of a diagonal that runs from one corner of the cube to the opposite corner?
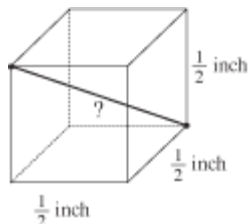
(a) 1/4

(b) 3/4

(c) 3/2

(d) $\frac{\sqrt{3}}{2}$

Answer:

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151. Simplify the expression

2(-4a - 5b) - (8 + b) + b + (-2b + 4) - 5a

(a) - 13a + 12b - 4

(b) 13a - 12b - 4

(c) - 13a - 12b - 4

(d) - 13a + 12b – 4
Answer:
http://www.aptitudetests4me.com/Buy_Quantitative_Aptitude_Ebook.html

152. Solve the equation

2(-3x - 5) - (8 - x) = -2(2x + 4) + 12

(a) x = -12

(b) x = 12

(c) x = 22

(d) x = -22
Answer:
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153. If x > -2, simplify the expression

2| x + 2 | - 3x - (-2 - x) + | 6 - 9 |

(a) 3

(b) 6

(c) 9

(d) 12
Answer:
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154. Find the slope and the y-intercept of the line given by the equation

2y - 3x = 10

(a) 3/2 and (1 , 5)

(b) 1/2 and (0 , 5)

(c) 3/2 and (0 , 5)

(d) 3/2 and (5 , 0)
Answer:
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155. Determining the probability of a coin landing heads up by actually tossing a coin several times is an example of _____.

(a) theoretical probability

(b) sample probability

(c) outcome probability

(d) experimental probability
Answer:
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156. A spinner numbered 1 through 10 is spun 100 times. The results of the experiment are shown in the table below. What is the experimental probability of spinning an 8?

Outcome	Frequency	Outcome	Frequency
1	8	6	14
2	16	7	8
3	10	8	13
4	7	9	9
5	12	10	3

(a) 1/100

(b) 13/100

(c) 10/100

(d) 7/100

Answer:

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157. An event with a probability of _____.

(a) is very likely to occur

(b) is not very likely to occur

(c) cannot occur

(d) is certain to occur

Answer:

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158. A randomly-thrown dart hits the dartboard shown. Find the probability of the dart landing in the shaded region.

(a) 16/25

(b) 14/25

(c) 3/5

(d) ½
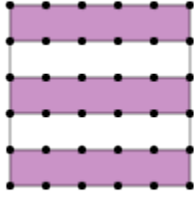
Answer:
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159. Punnett squares can be used to predict the probability of:

(a) being exposed to a contagious disease and contracting it

(b) having an inherited disease or a genetically determined physical trait

(c) both of the above

(d) none of the above

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160. Nadia will be x years old y years from now. How old was she z years ago?

(a) x + y + z

(b) x + y − z

(c) x − y − z

(d) y − x − z

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Answer:

161. If a = b + 1/2 , b = 2c + 1/2, and c = 3d + 1/2, which of the following is an expression for d in terms of a?

(a) (a - 2)/6

(b) (2a - 3)/6

(c) (2a - 3)/12

(d) (3a - 2)/8

Answer:

162. Anne drove for h hours at a constant rate of r miles per hour. How many miles did she go during the final 20 minutes of her drive?

(a) 20r

(b) hr/3

(c) 3rh

(d) r/3

Answer:

163. At Central High School each student studies exactly one foreign language. Three-fifths of the students take Spanish, and one-fourth of the remaining students take Italian. If all of the others take French, what percent of the students take French?

(a) 10

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(b) 15

(c) 20

(d) 30
Answer:
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164. From 2003 to 2004 the number of boys in the school chess club decreased by 20%, and the number of girls in the club increased by 20%. The ratio of girls to boys in the club in 2004 was how many times the ratio of girls to boys in the club in 2003?

(a) 2/3

(b) 4/5

(c) 1

(d) 3/2
Answer:
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165. In a certain school, 40% of all students are 8 years old or younger. The number of the remaining students is 120. How many students are 8 years old or younger?

(a) 80

(b) 160

(c) 480

(d) 320
Answer:
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166. 1/5 of students in a school have no brothers or sisters. Of the remaining students, 40% have 1 brother or sister. What percent of all students have more than 1 brother or sister?

(a) 60

(b) 80

(c) 48

(d) 20

Answer:
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167. In Rwanda, the chance for rain on any given day is 50%. What is the probability that it rains on 4 out of 7 consecutive days in Rwanda?

(a) 4/7

(b) 3/7

(c) 35/128

(d) 4/28

Answer:
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168. A Four digit safe code does not contain the digits 1 and 4 at all. What is the probability that it has at least one even digit?

(a) 1/4

(b) 1/2

(c) 3/4

(d) 15/16

Answer:

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169. Each side of the smaller square in the figure below is x inches long, and each side of the larger square is c inches longer than a side of the smaller square. The area of the larger square is how many square inches greater than the area of the smaller square?

(a) c^2

(b) xc

(c) 4c

(d) $2xc + c^2$

Answer:

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170. If the average (arithmetic mean) of 2, 7, and x is 12, what is the value of x?

(a) 9

(b) 12

(c) 21

(d) 27

Answer:

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171. If the sum of five consecutive even integers is 740, what is the largest of these integers?

(a) 156

(b) 152

(c) 146

(d) 144

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172. A competition offers a total of $250,000 in prize money to be shared by the top three contestants. If the money is to be divided among them in the ratio of 1:3:6, what is the value of the largest prize?

(a) $ 25,000

(b) $ 75,000

(c) $100,000

(d) $150,000

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173.

If $2\sqrt{2x+1} + 5 = 8$, then $x =$

(a) -1/8

(b) 0

(c) 5/8

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(d) 1
Answer:
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174. What is the largest integer, n, such that 112/2nis an integer?

(a) 1

(b) 2

(c) 3

(d) 4
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175. Which of the following is NOT equivalent to 3/5?

(a) 24/40

(b) 3/7 x 7/5

(c) 0.6

(d) (3/7)/(7/5)
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176. If a is equal to b multiplied by c, which of the following is equal to b divided by c?

(a) a/bc

(b) ab/c

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(c) a/c

(d) a/c^2

Answer:

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177. A bag contains '6' white and '4' red balls. Two balls are drawn at random. What is the chance, they will be of the same colour?

(a) 1/15

(b) 2/15

(c) 7/15

(d) 9/15

Answer:

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178. For a post three persons 'A', 'B' and 'C' appear in the interview. The probability of 'A' being selected is twice that of 'B' and the probability of 'B' being selected is thrice that of 'C', what are the individual probability of A, B, C being selected?

(a) 1/5

(b) 2/5

(c) 3/5

(d) 4/5

Answer:

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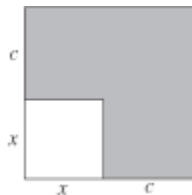**http://www.aptitudetests4me.com/Buy_Quantitative_Aptitude_Ebook.html**

179. An Italian restaurant has a choice of 4 starters, 5 main courses and 3 desserts on it's menu. How many different orders of 1 starter, 1 main course and 1 dessert can be made?

(a) 12

(b) 23

(c) 30

(d) 60
Answer:
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180. What is the probability of predicting the outcome of tossing a coin correctly three times in succession

(a) 1/2

(b) 1/3

(c) 1/8

(d) 1/9
Answer: c:
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181. 5 balls are numbered 1 to 5 and they are drawn randomly one at a time. What is the probability of predicting the order in which they are removed.

(a) 1/30

(b) 1/40

(c) 1/60

(d) 1/120
Answer:
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182. If V = 12R / (r + R) , then R =

(a) Vr / (12 - V)

(b) Vr + V /12

(c) Vr - 12

(d) V / r – 12
Answer:
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183. The number 0.127 is how much greater than 1/8 ?

(a) ½

(b) 2/10

(c) 1/50

(d) 1/500
Answer:
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184. Which of the following could not be the lengths of the sides of a right angled triangle?

(a) 3, 4, 5

(b) 5, 12, 13

(c) 8, 15, 17

(d) 12, 15, 18

Answer:

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185.
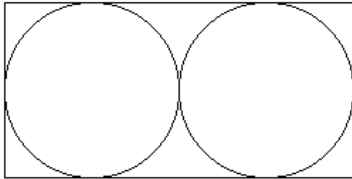
Two equal circles are cut out of a rectangle of card of dimensions 16 by 8. The circles have the maximum diameter possible. What is the approximate area of the paper remaining after the circles have been cut out?

(a) 104

(b) 78

(c) 54

(d) 27

Answer:

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186.

$$\frac{a^2 - b^2}{a + b} =$$

If a and b are both positive, which of the following is a simplification of the expression above?

(a) a² + b² + 1

(b) a + b

(c) a - b

(d) ab

Answer:

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187. x = y - (50/y), where x and y are both > 0 If the value of y is doubled in the equation above, the value of x will

(a) decrease

(b) stay the same

(c) increase four fold

(d) increase to more than double

Answer:

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188. Which of the following could be a solution of the equation ¦x¦ = ¦4x - 3¦

(a) -1

(b) -0.6

(c) 0

(d) 0.6

Answer:

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189. The number of degrees that the hour hand of a clock moves through between noon and 2.30 in the afternoon of the same day is

(a) 720

(b) 180

(c) 75

(d) 65

Answer:
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190. Jeff takes 20 minutes to jog around the race course one time, and 25 minutes to jog around a second time. What is his average speed in miles per hour for the whole jog if the course is 3 miles long?

(a) 6

(b) 8

(c) 10

(d) 12

Answer:
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191.
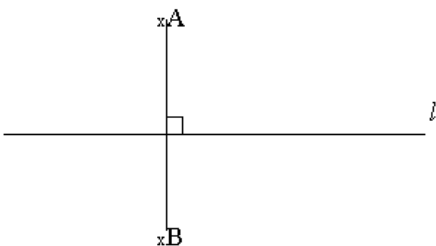
A and B are equidistant from the line l. How many circles can be drawn with their centres on line l and that pass through both A and B?

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(a) 1

(b) 2

(c) 4

(d) >10
Answer:
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192. A wheel has a diameter of x inches and a second wheel has a diameter of y inches. The first wheel covers a distance of d feet in 100 revolutions. How many revolutions does the second wheel make in covering d feet?

(a) 100xy

(b) 100y - x

(c) 100x - y

(d) 100x / y
Answer:
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193. The mean or average score is higher than the median, which is obtained by ranking the scores and selecting the one in the middle. How does this affect the shape of the curve?

(a) The curve is skewed to the left

(b) The curve has a disconuity between the mean and the median

(c) The curve is flattened (kurtosis)

(d) The curve is skewed to the right

Answer:
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194. In combinatorial analysis, the basic principle of counting provides a convenient way to calculate the number of possible outcomes for experiments. Let say you are given 3 caps, 4 shirts, 5 pants and 6 pairs of shoes. By using this principle, how many ways can you dress yourself?

(a) 3 + 4 + 5 + 6 = 18

(b) 3 x 4 x 5 x 6 = 360

(c) 3! + 4! + 5! + 6! = 870

(d) 3! x 4! x 5! x 6! = 12441600
Answer:
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195. Let say there are 8 contestants in a contest. There are 8P3 = 336 possible combinations for the top three spots. Here, the letter "P" stands for permutation. Which of the following formula is equivalent to nPr?

(a) n x (n - 1) x ... x (n - r)

(b) n x (n - 1) x ... x (n - r + 1)

(c) n x (n - 1) x ... x 3 x 2 x 1

(d) n x (n - 1) x ... x (n - r - 1)
Answer:
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196. You are given 10 balls and you are to choose 3 balls from these 10 balls. So, you have 10C3 = 120 ways to choose it. Here, the letter "C" represents "combination". Is it true that nCr = nC(n-r)?

(a) Yes

(b) No

(c)

(d)
Answer:
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197. The binomial theorem provides a convenient way to calculate the value of the coefficients for all the terms in any expansion involving 2 unknowns. The values of these coefficients can also be obtained from which famous mathematical figures?

(a) Pentagram

(b) Pascal's triangles

(c) Pythagorean triplets

(d) Permutation tree
Answer:
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198. From (1, 2, 3, 4, 5, 6), one number is picked out and replaced and one number is picked out again. If the sum of the 2 numbers is 8, what is the probability that the 2 numbers included the number 5?

(a) 1/3

(b) 1/5

(c) 2/3

(d) 2/5

Answer:
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199. Each participant in a certain study was assigned a sequence of 3 different letters from the set {A, B, C, D, E, F, G, H}. If no sequence was assigned to more than one participant and if 36 of the possible sequences were not assigned, what was the number of participants in the study? (Note, for example, that the sequence A, B, C is different from the sequence C, B, A.)

(a) 200

(b) 250

(c) 300

(d) 350

Answer:
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200. Which of the following statements must be true whenever n, a, b, and c are positive integers such that n < a, c > a, and b > c ?

(a) a < n

(b) b – n > a – n

(c) b < n

(d) n + b = a + c

Answer:
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201. The distribution of Jamal's high school grades by percentage of course credits is given in the circle graph below. What is Jamal's grade point average if each A is worth 4 points; each B, 3 points; and each C, 2 points?

(a) 3.0

(b) 3.4

(c) 3.6

(d) 3.7

Answer:

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202. Which of the following equations represents the linear relationship between time, t, and velocity, v, shown in the table below?

t	0	1	2
v	120	152	184

(a) v = 32t

(b) v = 32t + 120

(c) v = 120t

(d) v = 120t + 32

Answer:

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203. An industrial cleaner is manufactured using only the 3 secret ingredients A, B, and C, which are mixed in the ratio of 2:3:5, respectively, by weight. How many pounds of secret ingredient B are in a 42-pound (net weight) bucket of this cleaner?

(a) 4.2

(b) 12.6

(c) 14.0

(d) 18.0
Answer:
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204. If n = 8 and $16 \cdot 2^m = 4^{n-8}$, then m = ?

(a) -4

(b) -2

(c) 0

(d) 1
Answer:
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205. In the figure below, A, B, C, and D are collinear, FC is parallel to ED, BE is perpendicular to ED, and the measures of ∠FAB and ∠EBA are as marked. What is the measure of ∠FCB ?
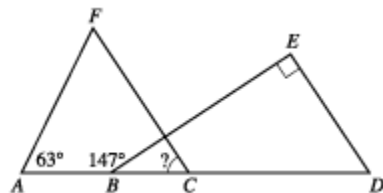
(a) 33°

(b) 57°

(c) 63°

(d) 84°

Answer:

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206. Which of the following is an equation of the circle with its center at (0,0) that passes through (3,4) in the standard (x,y) coordinate plane?

(a) $x - y = 1$

(b) $x + y = 25$

(c) $x^2 + y = 25$

(d) $x^2 + y^2 = 25$

Answer:

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Use the following information to answer questions 207–209.

Taher has decided to create a triangular flower bed border. He plans to use 3 pieces of rectangular lumber with lengths 4, 5, and 6 feet, as shown in the figure below. Points A, B, and C are located at the corners of the flower bed.
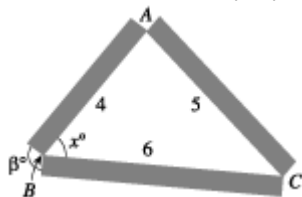
207. Taher plans to cut the 3 pieces of lumber for the flower bed border from a single piece of lumber. Each cut takes inch of wood off the length of the piece of lumber. Among the following lengths, in inches, of pieces of lumber, which is the shortest piece that he can use to cut the pieces for the flower bed border?

(a) 178

(b) 179

(c) 180

(d) 181
Answer:
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208. The measure of ∠ABC in the figure is x°. Which of the following is an expression β°?

(a) $x°$

(b) $2x°$

(c) $(90 + x)°$

(d) $(180 - x)°$
Answer:
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209. After arranging the flower bed, Taher decides that the flower bed would look more attractive if 1 of the angles in the triangle were a right angle. He decides to place the right angle at vertex A and to leave the lengths of AB and AC as 4 and 5 feet, respectively. To the nearest 0.1 foot, how long of a piece of lumber would he need to replace the 6-foot piece represented by BC ?

(a) 3.0

(b) 3.3

(c) 6.0

(d) 6.4
Answer:
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210. The diagonal of square II is equal to the perimeter of square I. The area of square II is how many times the area of square I?

(a) 2

(b) 4

(c) 8

(d) 12

Answer:

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211. Tony drove 8 miles west, 6 miles north, 3 miles east, and 6 more miles north. How far was Tony from his starting place?

(a) 13

(b) 17

(c) 19

(d) 21

Answer:

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212. By how many degrees does the angle formed by the hour hand and the minute hand of a clock increase from 1:27 to 1:28?

(a) 3.5 degrees.

(b) 4.5 degrees.

(c) 5.5 degrees.

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(d) 6.5 degrees.
Answer:
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213.
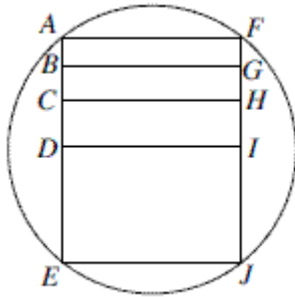
In the figure above, EF, not shown, is a diagonal of rectangle AFJE and a diameter of the circle. D is the mid point of AE, C is the midpoint of AD, and B is the midpoint of AC. If AE is 8 and the radius of the circle is 5, what is the area of rectangle BGHC?

(a) 4

(b) 6

(c) 8

(d) 12
Answer:
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214.
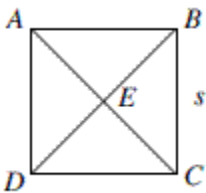
In the figure above, square ABCD has been divided into four triangles by its diagonals. If the perimeter of each triangle is 1, what is the perimeter of the square?

(a) 4/3

(b) 2

(c) 3

(d) $\dfrac{4}{\sqrt{2}+1}$

Answer:
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215. Two dice are thrown simultaneously. Find the probability of getting A multiple of '2' on one dice and a multiple of '3' on the other dice

(a) 1/36

(b) 11/36

(c) 1/3

(d) 15/36

Answer:
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216. What is the probability, that a leap year selected at random will contain 53 Sundays?

(a) 1/7

(b) 2/7

(c) 3/7

(d) 4/7

Answer:

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217. A bag contains '6' red, 4 white and 8 blue balls. If three balls are drawn at random, find the probability, that '1' is red and '2' are white

(a) 1/68

(b) 1/34

(c) 3/68

(d) 1/17

Answer:

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218. The volume, V, of the right circular cone with radius r and height h, shown below, can be found using the formula V = 1/3 r2h. A cone-shaped paper cup has a volume of 142 cubic centimeters and a height of 8.5 centimeters. What is the radius, to the nearest centimeter, of the paper cup?
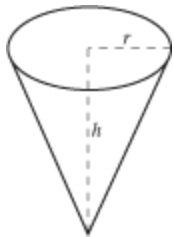
(a) 2

(b) 4

(c) 8

(d) 12
Answer:
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219. A boat departs Port Isabelle, Texas, traveling to an oil rig. The oil rig is located 9 miles east and 12 miles north of the boat's departure point. About how many miles is the oil rig from the departure point?

(a) 3

(b) $\sqrt{63}$

(c) 15

(d) 21
Answer:
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220. In the figure below, ∠ABC ≅ ∠DFE, ∠BAC ≅ ∠FDE, D and F are on AB, AD ≅ FB, and distances in centimeters are as shown. What is the length of AD, in centimeters?
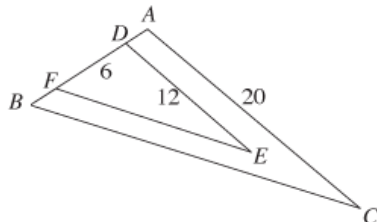
(a) 5

(b) 4

(c) 3

(d) 2
Answer:

221. Which of the following is a factor of the polynomial $2x^2 - 3x - 5$?

(a) $x - 1$

(b) $2x - 3$

(c) $2x - 5$

(d) $2x + 5$

Answer:

222. What is x, the second term in the geometric series $1/4 + x + 1/36 + 1/108 + \ldots$?

(a) 1/3

(b) 1/9

(c) 1/12

(d) 1/16

Answer:

223. $(3 \times 10^4) + (2 \times 10^2) + (4 \times 10) =$

(a) 302400

(b) 32400

(c) 30240

(d) 3240
Answer:
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224. Andy solves problems 74 to 125 inclusive in a Math exercise. How many problems does he solve?

(a) 53

(b) 52

(c) 51

(d) 50
Answer:
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225. If x and y are integers, and 3x + 2y = 13, which of the following could be the value of y ?

(a) 0

(b) 1

(c) 2

(d) 3
Answer:
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226.
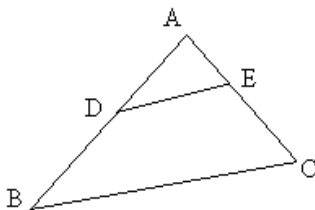
In triangle ABC, AD = DB , DE is parallel to BC, and the area of triangle ABC is 40. What is the area of triangle ADE ?

(a) 10

(b) 15

(c) 20

(d) 30
Answer:
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227. If n > 0 , which of the following must be true?

I $n^2 > 1$
II $n - n^2 < 0$
III $2n - 1 > 0$

(a) I only

(b) II only

(c) III only

(d) None
Answer:
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228. What is the probability of getting a sum of 12 when rolling 3 dice simultaneously?

(a) 10/216

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(b) 12/216

(c) 21/216

(d) 25/216
Answer:
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229. How many diagonals does a polygon with 21 sides have, if one of its vertices does not connect to any diagonal?

(a) 21

(b) 170

(c) 340

(d) 357
Answer:
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230. How many diagonals does a polygon with 18 sides have if three of its vertices do not send any diagonal? Use the formula: number of diagonals: n (n-3)/2 where n is the number of sides. Each vertex sends of n-3 diagonals.

(a) 90

(b) 126

(c) 210

(d) 264
Answer:
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231. What is the probability of getting a sum of 8 or 14 when rolling 3 dice simultaneously? Use the formula: number of diagonals: n (n-3)/2 where n is the number of sides. Each vertex sends of n-3 diagonals.

(a) 1/6

(b) 1/4

(c) 1/2

(d) 21/216
Answer:
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232. The telephone company wants to add an area code composed of 2 letters to every phone number. In order to do so, the company chose a special sign language containing 124 different signs. If the company used 122 of the signs fully and two remained unused, how many additional area codes can be created if the company uses all 124 signs?

(a) 246

(b) 248

(c) 492

(d) 15128
Answer:
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233. The probability of having a girl is identical to the probability of having a boy. In a family with three children, what is the probability that all the children are of the same gender?

(a) 1/8

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(b) 1/6

(c) 1/3

(d) ¼

Answer:
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234. On one side of a coin there is the number 0 and on the other side the number 1. What is the probability that the sum of three coin tosses will be 2?

(a) 1/8

(b) 1/2

(c) 1/5

(d) 3/8

Answer:
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235. In a flower shop, there are 5 different types of flowers. Two of the flowers are blue, two are red and one is yellow. In how many different combinations of different colors can a 3-flower garland be made?

(a) 4

(b) 20

(c) 3

(d) 5

Answer:
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236. In a jar there are balls in different colors: blue, red, green and yellow.
The probability of drawing a blue ball is 1/8.
The probability of drawing a red ball is 1/5.
The probability of drawing a green ball is 1/10.
If a jar cannot contain more than 50 balls, how many yellow balls are in the Jar?

(a) 23

(b) 20

(c) 24

(d) 17
Answer:
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237. In a jar there are 3 red balls and 2 blue balls. What is the probability of drawing at least one red ball when drawing two consecutive balls randomly?

(a) 9/10

(b) 16/20

(c) 2/5

(d) 3/5
Answer:
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238. A circular logo is enlarged to fit the lid of a jar. The new diameter is 50 per cent larger than the original. By what percentage has the area of the logo increased?

(a) 50

(b) 80

(c) 100

(d) 125
Answer:
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239. ?n denotes the number obtained when n is rounded to the nearest tenth. For example ?4.31 = 4.3

?0.089 - ?1.135 =

(a) 1.05

(b) 1.04

(c) -1.05

(d) -1.0

Answer:
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240. Half the people on a bus get off at each stop after the first, and no one gets on after the first stop. If only one person gets off at stop number 7, how many people got on at the first stop?

(a) 128

(b) 64

(c) 32

(d) 16

Answer:
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241.
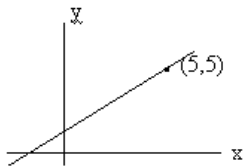
The slope of the line passing through the point (5,5) is 5/6. All of the following points could be on the line except

(a) (2.5, 2)

(b) (11, 10)

(c) (8, 7.5)

(d) (-1, 0)

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242. Of the following, which is greater than ½ ?

(a) 2/5

(b) 4/7

(c) 4/9

(d) 5/11

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243. If an object travels at five feet per second, how many feet does it travel in one hour?

(a) 30

(b) 720

(c) 1800

(d) 18000

Answer:

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244. What is the average (arithmetic mean) of all the multiples of ten from 10 to 190 inclusive?

(a) 90

(b) 95

(c) 100

(d) 105

Answer:

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245. A cubical block of metal weighs 6 pounds. How much will another cube of the same metal weigh if its sides are twice as long?

(a) 48

(b) 32

(c) 24

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(d) 18

Answer:

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246. In a class of 78 students 41 are taking French, 22 are taking German and 9 students are taking both French and German. How many students are not enrolled in either course?

(a) 6

(b) 15

(c) 24

(d) 33

Answer:

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247. Two dice are thrown simultaneously. Find the probability of getting A total of at least 0

(a) 1/4

(b) 1/5

(c) 1/6

(d) 1/7

Answer:

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248. A bag contains '6' red, 4 white and 8 blue balls. If three balls are drawn at random, find the probability, that none is red

(a) 51/204

(b) 53/204

(c) 55/204

(d) 59/204
Answer:
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249. In a lottery of 50 tickets numbered from '1' to '50' two tickets are drawn simultaneously. Find the probability that: Both the tickets drawn have prime number on them

(a) 19/245

(b) 4/49

(c) 21/245

(d) 22/245
Answer:
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250. The probability that a contractor will get a contract is '2/3' and the probability that he will get on other contract is 5/9 . If the probability of getting at least one contract is 4/5, what is the probability that he will get both the contracts ?

(a) 7/45

(b) 8/45

(c) 17/45

(d) 19/45
Answer:
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251. To win a game, I must do three things: Flip heads on a fair coin toss, roll a composite number on a number cube, and spin a 2 on a spinner with three equal areas, each labeled with a different number 1-3. What is the probability that I win the game?

(a) 1/8

(b) 1/18

(c) 1/9

(d) 2/9
Answer:
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252.

$$72 - 9 \div 3 \cdot 2 + 2 =$$

(a) 21

(b) 23

(c) 44

(d) 68
Answer:
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253. In scientific notation, 3.0 x 10-5 + 0.0000022 =

(a) 3.5×10^{-5}

(b) 3.22×10^{-5}

(c) 5.2×10^{-6}

(d) 3.5×10^{-6}
Answer:
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254. If

$$\frac{2}{3} + \left(\frac{1}{2} - \frac{1}{6}\right) + \left(\frac{1}{3} - \frac{3}{4}\right) =$$

is calculated and the fraction obtained reduced to simplest form, then what is its numerator?

(a) 12

(b) 8

(c) 7

(d) 6
Answer:
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255.

$$\frac{1}{4} + \left(\frac{4}{3} \times \frac{3}{5}\right) - \left(\frac{1}{4} \div \frac{4}{5}\right) =$$

(a) 59/80

(b) 17/20

(c) 6/7

(d) 16/15
Answer:
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256. A shop owner increased the selling price of a shirt from $20 to $26. By what percentage was the price increased?

(a) 6

(b) 26

(c) 30

(d) 46
Answer:
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257. 3/4+0.85+20% =

(a) 27.85

(b) 1.8

(c) 23.85

(d) 2.85
Answer:
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258. Tom worked for 6 hours and was paid $5.50 per hour. He then went shopping and bought two magazines at $9.50 each and a pen at $8.25. How much money does Tom have left?

(a) $60.25

(b) $15.25

(c) $33

(d) $5.75
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259. Bill bought 1(3/4) pounds of Cheddar cheese, 3.75 pounds of blue cheese and 4(1/2) pounds of goat cheese. How many pounds of cheese did Bill buy?

(a) 8

(b) 7.75

(c) 9.25

(d) 10
Answer:
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260. A car hire company offers two plans A and B. In plan A, a customer pays a flat fee of $20 for the day plus 5 cents for each kilometer. In plan B, a customer pays a flat fee of $15 for the day plus 7 cents for each kilometer. For how many kilometers would a customer pay the same amount for the two plans?

(a) 1000

(b) 800

(c) 242

(d) 250
Answer:
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261. Which one of the following expressions has an even integer value for all integers a and c ?

(a) 8a + 2ac

(b) 3a + 3c

(c) 2a + c

(d) a + 2c

Answer:
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262. A neighborhood recreation program serves a total of 280 children who are either 11 years old or 12 years old. The sum of the children's ages is 3,238 years. How many 11-year-old children does the recreation program serve?

(a) 55

(b) 122

(c) 132

(d) 158

Answer:
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263. The geometric figure shown below consists of a square and 4 semicircles. The diameters of the semicircles are the sides of the square, and each diameter is 10 centimeters long. Which of the following is the closest approximation of the total area, in square centimeters, of this geometric figure?
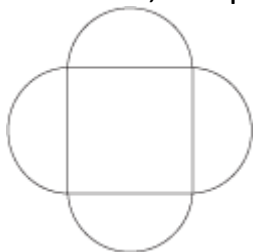
(a) 100

(b) 160

(c) 260

(d) 400

Answer:

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264. Which of the following expressions is the closest approximation to the height h, in feet, of the roof truss shown below
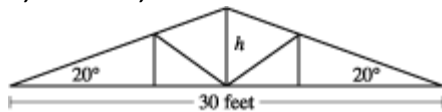
(a) 15 tan 20°

(b) 15 sin 20°

(c) 30 tan 20°

(d) 30 sin 20°

Answer:

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265. Quadrilateral ABCD is drawn on the standard (x,y) coordinate plane as shown below, with points E and F on AD. Point G is the center of rectangle BCEF. How many coordinate units long is AG ?
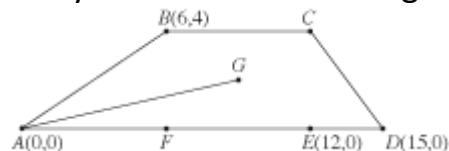
(a) $\sqrt{10}$

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(b) $\sqrt{13}$

(c) $\sqrt{85}$

(d) $\sqrt{97}$

Answer:
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266. What is the x-intercept of the graph of $y = x^2 - 4x + 4$?

(a) –2

(b) -1

(c) 0

(d) 2

Answer:
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267. For all nonzero real numbers p, t, x, and y such that $\frac{x}{y} = \frac{3p}{2t}$, which of the following expressions is equivalent to t ?

(a) y/2

(b) 3pz/2y

(c) 6py/x

(d) 3py/2x

Answer:
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268. Ms. Hernandez began her math class by saying: I'm thinking of 5 numbers such that their mean is equal to their median. If 4 of the numbers are 14, 8, 16, and 14, what is the 5th number? What is the 5th number Ms. Hernandez is thinking of?

(a) 13

(b) 14

(c) 15

(d) 18

Answer:
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269. Jerome wrote each of the integers 1 through 20, inclusive, on a separate index card. He placed the cards in a box, and then drew cards one at a time randomly from the box, without returning the cards he had already drawn to the box. In order to ensure that the sum of all cards he drew was even, how many cards did Jerome have to draw?

(a) 11

(b) 12

(c) 13

(d) 14

Answer:
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270. Which of the following is equivalent to

$\frac{5}{k} + \frac{k+3}{k+5}$?

(a) $\frac{k+8}{2k+5}$

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(b) $\dfrac{k+8}{k(k+5)}$

(c) $\dfrac{5(k+3)}{k(k+5)}$

(d)

$$\dfrac{k^2+8k+25}{k(k+5)}$$

Answer:
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271. In how many ways can 11 # signs and 8* signs be arranged in a row so that no two * signs come together?

(a) 295

(b) 395

(c) 495

(d) 595
Answer:
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272. A bag of 10 marbles contains 3 red marbles and 7 blue marbles. If two marbles are selected at random, what is the probability that at least one marble is blue?

(a) 21/50

(b) 3/13

(c) 47/50

(d) 14/15
Answer:
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273. A certain deck of cards contains 2 blue cards, 2 red cards, 2 yellow cards, and 2 green cards. If two cards are randomly drawn from the deck, what is the probability that they will both are not blue?

(a) 15/28

(b) 1/4

(c) 9/16

(d) 1/32
Answer:
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274. There are 5 red marbles, 3 blue marbles, and 2 green marbles. If a user chooses two marbles, what is the probability that the two marbles will be a different color?

(a) 19/45

(b) 22/45

(c) 31/45

(d) 34/45
Answer:
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275. In a workshop there are 4 kinds of beds, 3 kinds of closets, 2 kinds of shelves and 7 kinds of chairs. In how many ways can a person decorate his room if he wants to buy in the workshop one shelf, one bed and one of the following: a chair or a closet?

(a) 168

(b) 16

(c) 80

(d) 48
Answer:
http://www.aptitudetests4me.com/Buy_Quantitative_Aptitude_Ebook.html

276. Which of the following is the sample space when 2 coins are tossed?

(a) {H, T, H, T}

(b) {H, T}

(c) {HH, HT, TH, TT}

(d) None of the above
Answer:
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277. Three people are to be seated on a bench. How many different sitting arrangements are possible if Erik must sit next to Joe?

(a) 2

(b) 4

(c) 6

(d) 8
Answer:
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278. How many 3-digit numbers satisfy the following conditions: The first digit is different from zero and the other digits are all different from each other?

(a) 648

(b) 504

(c) 576

(d) 810
Answer:
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279. Barbara has 8 shirts and 9 pants. How many clothing combinations does Barbara have, if she doesn't wear 2 specific shirts with 3 specific pants?

(a) 41

(b) 66

(c) 36

(d) 70
Answer:
http://www.aptitudetests4me.com/Buy_Quantitative_Aptitude_Ebook.html

280.
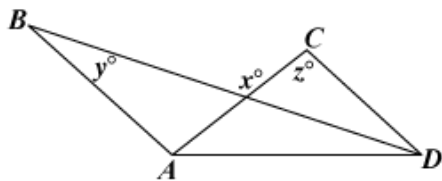
In the figure above AB and CD are parallel. What is x in terms of y and z?

(a) y+z

(b) 2y+z

(c) 2y-z

(d) 180-y-z

Answer:

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281. A number n is increased by 8. If the cube root of that result equals -0.5, what is the value of n?

(a) -15.625

(b) -8.794

(c) -8.125

(d) -7.875

Answer:

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282. Tickets for a show cost $3 or $5. If 50 tickets were sold for a total of $230, how many tickets were sold for $3?

(a) 10

(b) 20

(c) 25

(d) 30

Answer:

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283. The sum of the two roots of a quadratic equation is 5 and their product is -6. Which of the following could be the equation?

(a) $x^2 - 6x + 5 = 0$

(b) $x^2 - 5x - 6 = 0$

(c) $x^2 - 5x + 6 = 0$

(d) $x^2 + 5x - 6 = 0$

Answer:

http://www.aptitudetests4me.com/Buy_Quantitative_Aptitude_Ebook.html

284.
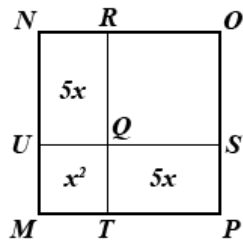
The figure above shows a square region divided into four rectangular regions, three of which have areas 5x, 5x, and x2, respectively. If the area of MNOP is 64, what is the area of square QROS?

(a) 9

(b) 25

(c) 30

(d) 34

Answer:

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285.
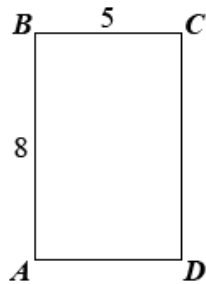
If rectangle ABCD in the figure above is rotated about side AB, it generates a cylinder of volume

(a) 40 π

(b) 50 π

(c) 100 π

(d) 200 π

Answer:
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286. A pole 12 meters tall is perpendicular to level ground. A taut wire that is 20 meters long extends from the top of the pole to the ground. What is the angle of elevation, to the nearest degree, from the bottom of the wire to the top of the pole?

(a) 31°

(b) 35°

(c) 37°

(d) 53°

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Answer:
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287.
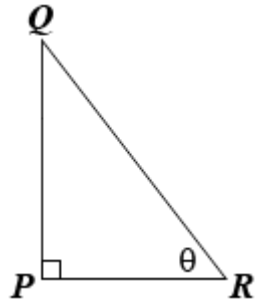
In the figure above, if PQ/QR = 2/3, then tan $\tan\theta =$

(a) 2/5

(b) $\dfrac{2}{\sqrt{5}}$

(c) $\dfrac{3}{\sqrt{5}}$

(d) $\dfrac{\sqrt{5}}{2}$

Answer:
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288. Ralph was on his way from home to work when he remembered that he left his briefcase at home. He drove home and then drove back to work. Which of the following graphs could represent his distance from home as a function of time?

(a)

(b)

(c)

(d)
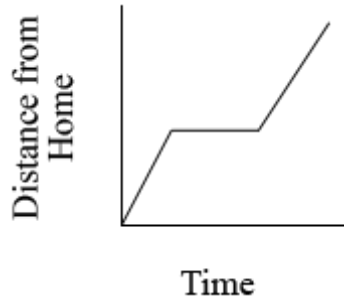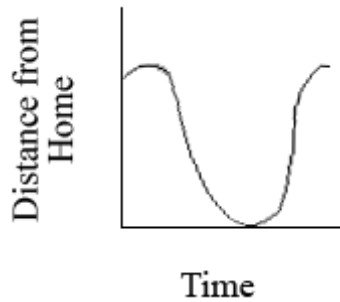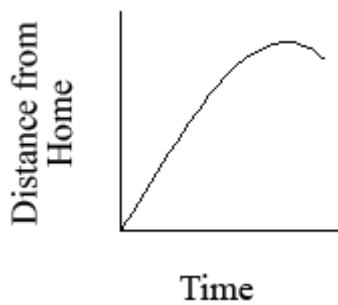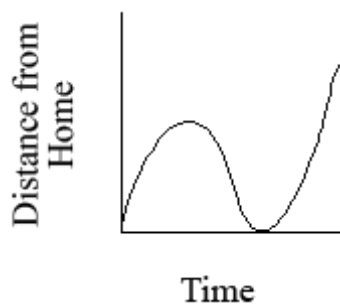
Answer:
http://www.aptitudetests4me.com/Buy_Quantitative_Aptitude_Ebook.html

289. The function f, where $f(x)=(1+x)^2$, is defined for $-2 \leq x \leq 2$. What is the range of f?

(a) $0 \leq f(x) \leq 4$

(b) $0 \leq f(x) \leq 9$

(c) $1 \leq f(x) \leq 4$

(d) $1 \leq f(x) \leq 5$

Answer:
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290. In triangle ACB, what is the value of x?
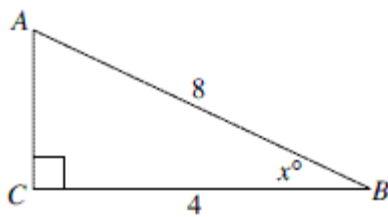
Note: Figure not drawn to scale

(a) 75

(b) 60

(c) 45

(d) 30

Answer:
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291. In triangle XYZ at the right, if XY < YZ < ZX, then which of the following must be true?
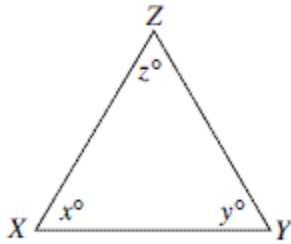
Note: Figure not drawn to scale

(a) x < 60

(b) z < 60

(c) y < z

(d) x < z

Answer:

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292. In the figure below, O is the center of the circle. If OA = 4 and BC = 2, what is the value of x?
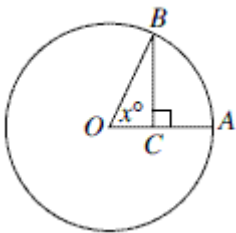
(a) 15

(b) 25

(c) 30

(d) 45

Answer:

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293. In the figure below, Q is a point on the circle whose center is O and whose radius is r, and OPQR is a rectangle. What is the length of diagonal PR?
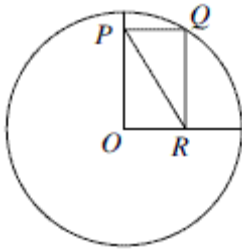
(a) r

(b) r^2

(c) r^2/p

(d) $r^2/2p$

Answer:
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294. What is the area of quadrilateral ABCD?
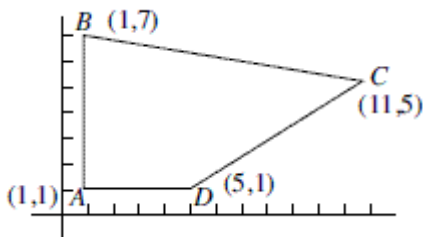
(a) 30

(b) 34

(c) 38

(d) 42

Answer:
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295. Two six-sided dice are rolled. Find the probability that the first die is not a 5, given that the second die is not a 2.

(a) 2/3

(b) 29/36

(c) 25/36

(d) 5/6
Answer:
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296. Two six-sided dice are rolled. But this time, the dice aren't fair: For each die, a 1 is twice as likely to be rolled as a 2, a 2 is twice as likely to be rolled as a 3, ..., and a 5 is twice as likely to be rolled as a 6 (in other words, each number is twice as likely as the number that follows it). So what is the probability of rolling a sum of 7?

(a) 64/1023

(b) 64/1223

(c) 64/1323

(d) 64/1123
Answer:
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297. There is a carnival game that requires you to roll two standard 6-sided dice. If the sum of the dice rolls is a prime number, then you win. What is the probability of winning?

(a) 5/12

(b) 17/36

(c) 4/9

(d) ½
Answer:
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298. There is a standard 52-card deck. If you draw three cards randomly, what is the probability that all three cards are spades?

(a) 23 out of 1,988

(b) 39 out of 140,608

(c) 11 out of 850

(d) 1 out of 64
Answer: c:
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299. A casino game costs $5 to play where you roll two dice. If the sum of the dice rolls is 7, you win $21. If the sum of the dice rolls is not 7, then you lose and get nothing. If you keep playing and stop when you win, what are the odds you will have made money?

(a) 3750/7776

(b) 4651/7776

(c) 3125/7776

(d) 4105/7776

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Answer:
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300. The average of 10 numbers is –10. If the sum of six of them is 100, what is the average of the other four?

(a) -100

(b) -50

(c) 0

(d) 50

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301. What is 3% of 4%?

(a) 0.07%

(b) 0.12%

(c) 1.2%

(d) 7%

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302. If f(x) = 4x2 + 2x4, what is the value of f(–2)?

(a) -48

(b) -32

(c) 0

(d) 48
Answer:
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303. In the figure below, ABCD is a rectangle, and BE and CF are arcs of circles centered at A and D. What is the area of the shaded region?
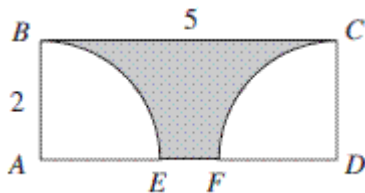
(a) $10 - \pi$

(b) $2(5 - \pi)$

(c) $2(5 - 2\pi)$

(d) $6 + 2\pi$
Answer:
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304. If $5(3x - 7) = 20$, what is $3x - 8$?

(a) 1

(b) 2

(c) 3

(d) 4
Answer:
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305. The price of a cycle is reduced by 25 per cent. The new price is reduced by a further 20 per cent. The two reductions together are equal to a single reduction of

(a) 45%

(b) 40%

(c) 35%

(d) 32.5%
 Answer:
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306. x and y are integers
x + y < 11 , and x > 6
What is the smallest possible value of x - y ?

(a) 1

(b) 2

(c) 4

(d) -2
Answer:
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307. If x5y4z2 <0 , which of the following must be true?

I xy <0
II yz <0
III xz <0

(a) I

(b) II

(c) III

(d) None
Answer:
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308.
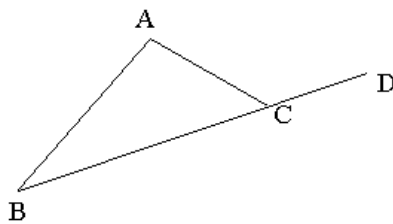
(figure not to scale)

BCD is a line segment and Angle BAC = ¼ Angle ACB ; Angle ACD = ?

(a) 140

(b) 100

(c) 120

(d) it cannot be determined from the information given
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309. Which of the following integers is in the solution set of $\lvert 1 - 3x \rvert < 5$?

I -1
II 1
III 2

(a) I only

(b) II only

(c) III only

(d) I and II only
Answer:
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310. In a certain village, m litres of water are required per household per month. At this rate, if there are n households in the village, how long (in months) will p litres of water last?

(a) p /mn

(b) mn / p

(c) mp / n

(d) np / m
Answer:
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311.
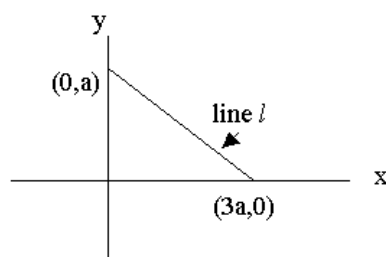
In the figure above, what is the slope of line l ?

(a) - 3

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(b) - 1/3

(c) 0

(d) 1/3

Answer:

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312. What digit appears in the units place in the number obtained when 2320 is multiplied out?

(a) 0

(b) 0

(c) 4

(d) 6

Answer:

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313.
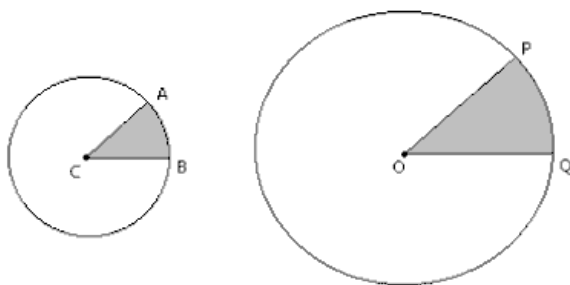
Radius of circle center O is 3 times the radius of circle center C.

Angle ACB = Angle POQ

If the shaded area of circle C is 2 then what is the area of the shaded part of circle O ?

(a) 6

(b) 12

(c) 18

(d) 36
 Answer:
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314. Using the digits 1, 2, 3 and 5, how many 4 digit numbers can be formed if the first digit must be 1 and repetition of the digits is allowed?

(a) 4

(b) 6

(c) 24

(d) 64
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315. Using the digits 1, 2, 3 and 5, how many 4 digit numbers can be formed if the first digit must be 1 and repetition of the digits is not allowed?

(a) 4

(b) 6

(c) 24

(d) 64
Answer:
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316. Using the digits 1, 2, 3 and 5, how many 4 digit numbers can be formed if the number must be divisible by 2 and repetion is allowed?

(a) 4

(b) 6

(c) 24

(d) 64
Answer:
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317. Using the digits 1, 2, 3 and 5, how many 4 digit numbers can be formed if the number must be divisible by 2 and repetion is not allowed?

(a) 4

(b) 6

(c) 24

(d) 64
Answer:
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318. A poultry farm has only chickens and pigs. When the manager of the poultry counted the heads of the stock in the farm, the number totaled up to 200. However, when the number of legs was counted, the number totaled up to 540. How many chickens were there in the farm?

(a) 70

(b) 120

(c) 60

(d) 130

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319. Three years back, a father was 24 years older than his son. At present the father is 5 times as old as the son. How old will the son be three years from now?

(a) 12

(b) 6

(c) 3

(d) 9
Answer:
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320. For what values of 'k' will the pair of equations $3x + 4y = 12$ and $kx + 12y = 30$ not have a unique solution?

(a) 12

(b) 9

(c) 3

(d) 7.5
Answer:
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321. The basic one-way air fare for a child aged between 3 and 10 years costs half the regular fare for an adult plus a reservation charge that is the same on the child's ticket as on the adult's ticket. One reserved ticket for an adult costs $216 and the cost of a reserved ticket for an adult and a child (aged between 3 and 10) costs $327. What is the basic fare for the journey for an adult?

(a) $111

(b) $52.5

(c) $210

(d) $58.5
Answer:
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322. Two coins are tossed, find the probability that two heads are obtained

(a) 1/2

(b) 1/3

(c) 1/4

(d) 1/5
Answer:
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323. Which of these numbers cannot be a probability?

(a) -0.00001

(b) 1

(c) 1.001

(d) a and c
Answer:
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324. Two dice are rolled, find the probability that the sum is equal to 1

(a) 1/2

(b) 1/3

(c) 0

(d) 1

Answer:

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325. Two dice are rolled, find the probability that the sum is equal to 4

(a) 1/4

(b) 1/6

(c) 1/8

(d) 1/12

Answer:

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326. Two dice are rolled, find the probability that the sum is less than 13

(a) 1/6

(b) 0

(c) 1/2

(d) 1

Answer:

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327. A die is rolled and a coin is tossed, find the probability that the die shows an odd number and the coin shows a head.

(a) 1/2

(b) 1/4

(c) 1/6

(d) 1/8
Answer:
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328. A jar contains 3 red marbles, 7 green marbles and 10 white marbles. If a marble is drawn from the jar at random, what is the probability that this marble is white?

(a) 1/8

(b) 1/4

(c) 1/2

(d) 1
Answer:
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329. If a and b are positive numbers, with a3 = 3 and a5 = 12b2, what is the ratio of a to b?

(a) 1

(b) 2

(c) 3

(d) 4
Answer:
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330. What is the value of (1 + 7/5)/(1 - 7/5) ?

(a) 5.4

(b) 6.4

(c) 7.4

(d) 8.4
Answer:
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331. John had $150. He used 85% of it to pay his electric bill and 5% of it on a gift for his mother. How much did he have left?

(a) $5

(b) $10

(c) $15

(d) $20
Answer:
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332. The product of three positive integers is 300. If one of them is 5, what is the least possible value of the sum of the other two?

(a) 16

(b) 17

(c) 19

(d) 23

Answer:
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333. A palindrome is a number, such as 93539, that reads the same forward and backward. How many palindromes are there between 100 and 1000?

(a) 70

(b) 80

(c) 90

(d) 100
Answer:
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334. In how many ways can Al, Bob, Charlie, Dan, and Ed stand in a line if Bob must be first and either Charlie or Dan must be last?

(a) 8

(b) 10

(c) 12

(d) 14
Answer:
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335. In the grid below, what is the area of quadrilateral ABCD?
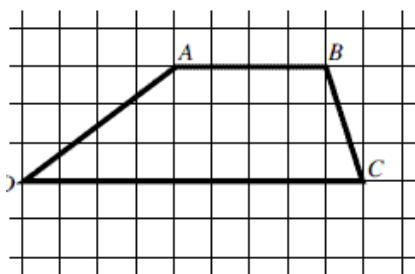
(a) 19.5

(b) 21

(c) 25.5

(d) 27
Answer:
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336. The chart below depicts the number of electoral votes assigned to each of the six New England states. What is the average (arithmetic mean) number of electoral votes, to the nearest tenth, assigned to these states?
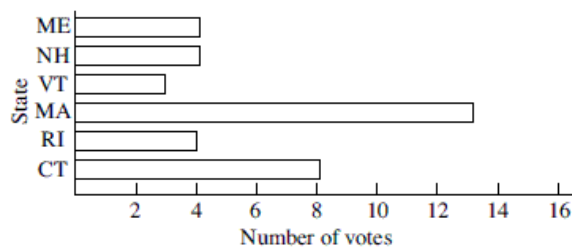
(a) 4.0

(b) 5.7

(c) 6.0

(d) 6.5
Answer:
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337. For any numbers a and b, a ? b is defined as a ? b = (a + b)/(a - b). What is the value of 25 ? 15?

(a) 2

(b) 3

(c) 4

(d) 5

Answer:

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338. If y ¤ x = y2x for all positive integers, then (3 ¤ 4) ¤ 2 =

(a) 3^8

(b) 3^{12}

(c) 3^{16}

(d) 3^{32}

Answer:

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339. The first term in a sequence is 1 and the second term is 5. From the third term on each term is the average (arithmetic mean) of all preceding terms. What is the 25th term in the sequence?

(a) 2.5

(b) 3

(c) 5

(d) 25

Answer:

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340.
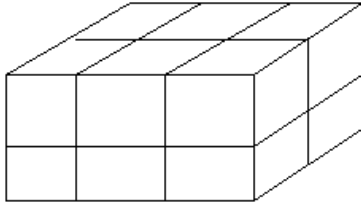
The solid brick shown is made of small bricks of side 1. When the large brick is disassembled into its component small bricks, the total surface area of all the small bricks is how much greater than the surface area of the large brick?

(a) 32

(b) 40

(c) 60

(d) 72

Answer:

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341. $(3x + 2)(2x - 5) = ax^2 + kx + n$. What is the value of $a - n + k$?

(a) 5

(b) 8

(c) 9

(d) 10

Answer:

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342. A straight fence is to be constructed from posts 6 inches wide and separated by lengths of chain 5 feet long. If a certain fence begins and ends with a post, which of the following could not be the length of the fence in feet? (12 inches = 1 foot)

(a) 17

(b) 28

(c) 35

(d) 39

Answer:

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343. If $\sin\theta = 0.57$, then $\sin(\pi - \theta) =$

(a) -0.57

(b) -0.43

(c) 0.57

(d) 0.43

Answer:

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344. A line has parametric equations x=5+t and y=7+t, where t is the parameter. The slope of the line is

(a) 5/7

(b) 1

(c) 7+t/5+t

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(d) 7/5

Answer:

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345. What is the range of the function defined by f(x)=1/x+2?

(a) All real numbers

(b) All real numbers except 1/2

(c) All real numbers except 0

(d) All real numbers except 2

Answer:

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346.
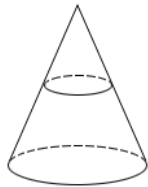
The right circular cone above is sliced horizontally forming two pieces, each of which has the same height. What is the ratio of the volume of the smaller piece to the volume of the larger piece?

(a) 1/2

(b) 1/3

(c) 1/6

(d) 1/7

Answer:

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347.
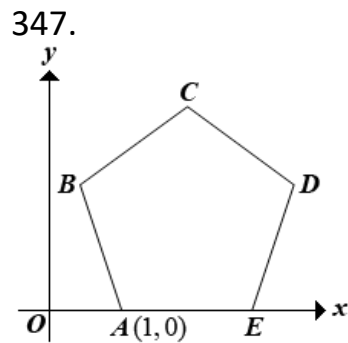
In the figure above, ABCDE is a regular pentagon with side of length 2. What is the x-coordinate of D?

(a) 2.62

(b) 3.62

(c) 3.73

(d) 3.90

Answer:
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348. For a class test, the mean score was , the median score was , and the standard deviation of the scores was . The teacher decided to add points to each score due to a grading error. Which of the following statements must be true for the new scores?

I. The new mean score is .
II. The new median score is .
III. The new standard deviation of the scores is

(a) None

(b) I only

(c) II only

(d) I and II only
Answer:
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349. A game has two spinners. For the first spinner, the probability of landing on blue is 4/5. Independently, for the second spinner, the probability of landing on blue is 1/7 What is the probability that the first spinner lands on blue and the second spinner does not land on blue?

(a) 1/35

(b) 4/35

(c) 6/35

(d) 24/35
Answer:
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350. In January 1990 the world's population was 5.3 billion. Assuming a growth rate of 2 percent per year, the world's population, in billions, for t years after 1990 can be modeled by the equation P=5.3(1.02)t. According to the model, the population growth from January 1995 to January 1996 was

(a) 106,000,000

(b) 114,700,000

(c) 117,000,000

(d) 445,600,000
Answer:
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351. For some real number t, the first three terms of an arithmetic sequence are 2t, 5t-1, and 6t+2. What is the numerical value of the fourth term?

(a) 4

(b) 8

(c) 10

(d) 19

Answer:
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352. If

$f(x) = \sqrt[3]{x^3 + 1}$, what is $f^{-1}(1.5)$?

(a) 3.4

(b) 2.4

(c) 1.6

(d) 1.3

Answer:
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353. Find the equation of a circle whose center is at the point (-2 , 3) and its diameter has a length of 10

(a) $(x - 2)^2 + (y - 3)^2 = 25$

(b) $(x + 2)^2 + (y + 3)^2 = 25$

(c) $(x + 2)^2 + (y - 3)^2 = 25$

(d) $(x + 2)^2 + (y - 3)^2 = 100$
Answer:
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354. Find the center and the radius of the circle whose equation is given by $x2 + 4x + y2 - 8y = 5$.

(a) center (-2 , -4) and radius 5

(b) center (2 , 4) and radius 5

(c) center (-2 , 4) and radius 5

(d) center (-2 , 4) and radius 10
Answer:
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355. Two dice are thrown simultaneously. Find the probability of getting An even number as the sum

(a) 1/2

(b) 1/3

(c) 1/4

(d) 1/5
Answer:
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356. Two dice are thrown simultaneously. Find the probability of getting A prime number as the sum

(a) 4/12

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(b) 5/12

(c) 1/2

(d) 7/12
Answer:

357. Two dice are thrown simultaneously. Find the probability of getting A multiple of '3' as the sum

(a) 1/2

(b) 1/3

(c) 1/4

(d) 1/5
Answer:

358. Look at this series: 70, 71, 76, __, 81, 86, 70, 91, . . . What number should fill the blank?

(a) 70

(b) 71

(c) 80

(d) 96
Answer:

359. Two dice are thrown simultaneously. Find the probability of getting A doublet of even numbers

(a) 1/9

(b) 1/10

(c) 1/11

(d) 1/12
Answer:

360. A box contains 12 bulbs of which '4' are defective. All bulbs took alike. Three bulbs are drawn randomly.
What is the probability that :all the '3' bulbs are defective

(a) 1/52

(b) 1/53

(c) 1/54

(d) 1/55
Answer:

361. Determine the probability that a randomly selected number between one and ten (including one and ten) is a factor of 24.

(a) 1/4

(b) 1/2

(c) 3/5

(d) 1/3
Answer:

362. A couple has two children. At least one of them is male. What is the probability that one child is female, assuming the probability of having either sex is equal?

(a) 3/4

(b) 1/4

(c) 1/2

(d) 2/3
Answer:

363. A family had dinner in a restaurant and paid $30 for food. They also had to pay 9.5% sale tax and 10% for the tip. How much did they pay for the dinner?

(a) $33.85

(b) $34.85

(c) $35.85

(d) $36.85
Answer:

364. A shop is offering discounts on shirts costing $20 each. If someone buys 2 shirts, he will be offered a discount of 15% on the first shirt and another 10% discount on the reduced price for the second shirt. How much would one pay for two shirts at this shop?

(a) $30.3

(b) $31.3

(c) $32.3

(d) $33.3
Answer:

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365. Smith invested $5000 for two years. For the first year, the rate of interest was 7% and the second year it was 8.5%. How much interest did he earn at the end of the two year period?

(a) $804.75

(b) $805.75

(c) $806.75

(d) $807.75
Answer:

366. Janette invested $2000 at 5% compounded annually for 5 years. How much interest did she earn at the end of the 5 year period?

(a) $551.56

(b) $552.56

(c) $553.56

(d) $552.56
Answer:

367. Tom borrowed $600 at 10% per year, simple interest, for 3 years. How much did he have to repay (principal + interest) at the end of the 3 year period?

(a) $180

(b) $780

(c) $790

(d) $880
Answer:

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368. Out of a world population of approximately 6.6 billion, 1.2 billion people live in the richer countries of Europe, North America, Japan and Oceania and is growing at the rate of 0.25% per year, while the other 5.4 billion people live in the lees developed countries and is growing at the rate of 1.5%. What will be the world population in 5 years if we assume that these rates of increase will stay constant for the next 5 years. (round answer to 3 significant digits)

(a) 5.03 billion

(b) 6.03 billion

(c) 7.03 billion

(d) 8.03 billion
Answer:

369. Cassandra invested one part of her $10,000 at 7.5% per year and the other part at 8.5% per year. Her income from the two investment was $820. How much did she invest at each rate?

(a) $4000 and $6000

(b) $3000 and $7000

(c) $7000 and $3000

(d) $6000 and $4000
Answer:

370. The monthly salary S of a shop assistant is the sum of a fixed salary of $500 plus 5% of all monthly sales. What should the monthly sales be so that her monthly salary reaches $1500?

(a) $10000

(b) $15000

(c) $20000

(d) $25000
Answer:

371. A chemist has a 20% and a 40% acid solutions. What amount of each solution should be used in order to make 300 ml of a 28% acid solution?

(a) 180 and 120

(b) 120 and 180

(c) 160 and 140

(d) 140 and 160
Answer:

372. What is the average of four tenths and five thousandths?

(a) 25002

(b) 2502

(c) 0.225

(d) 0.2025
Answer:

373. What is the simplified result of following the steps above in order?

(1) add 5y to 2x
(2) multiply the sum by 3
(3) subtract x + y from the product

(a) 5x + 14y

(b) 5x + 16y

(c) 5x + 5y

(d) 6x + 4y
Answer:

374. If the equation of a line p in the coordinate plane is y = 3x + 2, what is the equation of line q which is a reflection of line p in the x-axis?

(a) y = -3x + 2

(b) y = -3x - 2

(c) y = 3x - 2

(d) y = -1/3x – 5
Answer:

375. In the figure given below, what is the value of x-y?
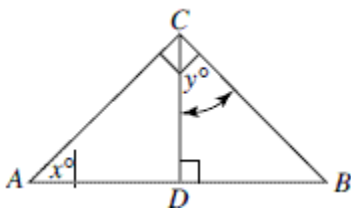
(a) -30

(b) -15

(c) 0

(d) 15

Answer:

376. If, in the figure below, AB = AC, what is the value of x?
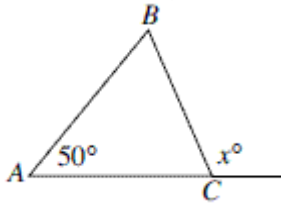
(a) 135

(b) 125

(c) 115

(d) 65

Answer:

377. In the figure below, what is the sum of the measures of all of the marked angles?
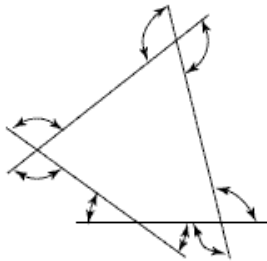
(a) 360°

(b) 540°

(c) 720°

(d) 900°

Answer:

378. In the diagram below, rays PA and PB are tangent to circle O. Which of the following is equal to z?
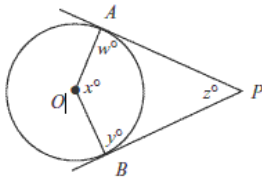
(a) x

(b) 180-x

(c) w + x + y

(d) (w + x + y)/2

Answer:

379. In a deck of cards there are 52 cards numbered from 1 to 13. There are 4 cards of each number in the deck. If you insert 12 more cards with the number 10 on them and you shuffle the deck really good, what is the probability to pull out a card with a number 10 on it?

(a) 1/4

(b) 4/17

(c) 5/29

(d) 4/13

Answer:

380. There are 18 balls in a jar. You take out 3 blue balls without putting them back inside, and now the probability of pulling out a blue ball is 1/5. How many blue balls were there in the beginning?

(a) 9

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(b) 8

(c) 7

(d) 6
Answer:

381. In a box there are A green balls, 3A + 6 red balls and 2 yellow ones. If there are no other colors, what is the probability of taking out a green or a yellow ball?

(a) 1/5

(b) 1/2
(c) 1/3

(d) ¼
Answer:

382. The probability of Sam passing the exam is 1/4. The probability of Sam passing the exam and Michael passing the driving test is 1/6. What is the probability of Michael passing his driving test?

(a) 1/24

(b) 1/2

(c) 1/3

(d) 2/3
Answer:

383. In a blue jar there are red, white and green balls. The probability of drawing a red ball is 1/5. The probability of drawing a red ball, returning it, and then drawing a white ball is 1/10. What is the probability of drawing a white ball?

(a) 1/5

(b) 1/2

(c) 1/3

(d) 3/10
Answer:

384. Out of a classroom of 6 boys and 4 girls the teacher picks a president for the student board, a vice president and a secretary. What is the probability that only girls will be elected?

(a) 8/125

(b) 2/5

(c) 1/30

(d) 1/720
Answer:

385. Two dice are rolled. What is the probability the sum will be greater than 10?

(a) 1/9

(b) 1/12

(c) 5/36

(d) 1/6
Answer:

386. Out of a box that contains 4 black and 6 white mice, three are randomly chosen. What is the probability that all three will be black?

(a) 8/125

(b) 1/30

(c) 2/5

(d) 1/720
Answer:

387. The probability of pulling a black ball out of a glass jar is 1/X. The probability of pulling a black ball out of a glass jar and breaking the jar is 1/Y. What is the probability of breaking the jar?

(a) 1/(XY)

(b) X/Y

(c) Y/X

(d) 1/(X+Y)
Answer:

388. Danny, Doris and Dolly flipped a coin 5 times and each time the coin landed on "heads". Dolly bet that on the sixth time the coin will land on "tails", what is the probability that she's right?

(a) 1

(b) 1/2

(c) 3/4

(d) ¼
Answer:

389. What is the slope of any line parallel to the line 9x + 4y = 7 ?

(a) -9

(b) -9/4

(c) 9/7

(d) 7
Answer:

390. A DVD player with a list price of $100 is marked down 30%. If John gets an employee discount of 20% off the sale price, how much does John pay for the DVD player ?

(a) $86.00

(b) $77.60

(c) $56.00

(d) $50.00
Answer:

391. $\sqrt{-(-9)^2}$ = ? (Note: i = $\sqrt{-1}$)

(a) 9i

(b) 9 + i

(c) 9 – i

(d) 9
Answer:

392. What is the degree measure of the acute angle formed by the hands of a 12-hour clock that reads exactly 1 o'clock?

(a) 15°

(b) 30°

(c) 45°

(d) 60°

Answer:

393. What is the probability that a number selected at random from the set {2, 3, 7, 12, 15, 22, 72, 108} will be divisible by both 2 and 3 ?

(a) 1/4

(b) 3/8

(c) 3/5

(d) 5/8

Answer:

394. A circle has a circumference of 16 π feet. What is the radius of the circle, in feet?

(a) $\sqrt{8}$

(b) 4

(c) 8

(d) 16

Answer:

395. A rectangle with a perimeter of 30 centimeters is twice as long as it is wide. What is the area of the rectangle in square centimeters?

(a) 15

(b) 30

(c) 200

(d) 3 $\sqrt{15}$
Answer:

396. In the standard (x,y) coordinate plane, what are the coordinates of the midpoint of a line segment whose endpoints are (–3,0) and (7,4) ?

(a) (2,2)

(b) (2,4)

(c) (5,2)

(d) (5,4)
Answer:

397. Points A, B, C, and D are on a line such that B is between A and C, and C is between B and D. The distance from A to B is 6 units. The distance from B to C is twice the distance from A to B, and the distance from C to D is twice the distance from B to C. What is the distance, in units, from the midpoint of BC to the midpoint of CD ?
(a) 18

(b) 14

(c) 12

(d) 9
Answer:

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398. The area A of a trapezoid is given by the formula $A = 0.5(b + B)h$, where b and B are the sizes of the bases and h the size of the height of the trapezoid. Express B in terms of A, b and h.

(a) 0.5Ah - b

(b) 2A/h - b

(c) (2A - b)/h

(d) 2A/h + b
Answer:

399. Tom, Linda and Alex have $120 dollars. Alex has the third of what Tom has and Linda has twice as much as Alex. How much money, in dollars, does Linda have?

(a) 10

(b) 20

(c) 40

(d) 60
Answer:

400. Which of the following is equivalent to $6x2 - 11x - 2$?

(a) (6x - 1)(x + 2)

(b) (3x - 1)(2x + 2)

(c) (3x + 1)(2x - 2)

(d) (6x + 1)(x - 2)
Answer:

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401. During the same journey, Stuart drove x miles for 2 hours, and 200 miles for 3 hours. Find x if the average speed for the entire journey is 70 miles per hour.

(a) 166

(b) 167

(c) 150

(d) 140
Answer:

402. Given the equations of the lines
(I) 2y + 3x = 3
(II) -3y - 2x = 5
(III) -6y + 4x = 9,
(IV) 2y + 6x = 9
which two lines are perpendicular?

(a) (I) and (II)

(b) (II) and (III)

(c) (III) and (IV)

(d) (I) and (III)
Answer:

403. If the slope of a line is ½ and the y-intercept is 3, what is the x-intercept of the same line?

(a) 6

(b) 3/2

(c) 0

(d) -6
Answer:

404. 6 people meet for a business lunch. Each person shakes hands once with each other person present. How many handshakes take place?

(a) 30

(b) 21

(c) 18

(d) 15
Answer:

405. If $x^2 - y^2 = 55$, and $x - y = 11$, then $y =$

(a) 8

(b) 5

(c) 3

(d) -3
Answer:

406. In a sports club with 30 members, 17 play badminton and 19 play tennis and 2 do not play either. How many members play both badminton and tennis?

(a) 7

(b) 8

(c) 9

(d) 10
Answer:

407.

(figure not to scale)
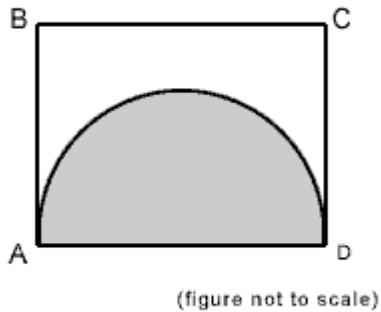
Rectangle ABCD has a perimeter of 26. The half circle with diameter AD has an area of 8p. What is the perimeter of the part of the figure that is not shaded?

(a) 26 + 4p

(b) 18 + 8p

(c) 18 + 4p

(d) 14 + 4p
Answer:

408. Courier charges for packages to a certain destination are 65 cents for the first 250 grams and 10 cents for each additional 100 grams or part thereof. What could be the weight in grams of a package for which the charge is $1.55 ?

(a) 1155

(b) 1145

(c) 1040

(d) 950
Answer:

409.
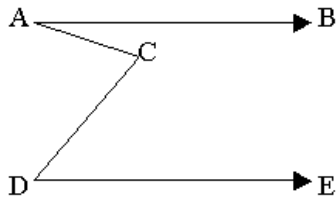
(figure not to scale)

(a) 100

(b) 90

(c) 80

(d) 70
Answer:

410. If x / y is an integer, which of the following statements must be true?

(a) both x and y are integers

(b) x is an integer

(c) either x or y is negative

(d) x = ny where n is an integer
Answer:

411. The line with equation y=7 is graphed on the same xy-plane as the circle with center (4,5) and radius 3. What are the x-coordinates of the points of intersection of the line and the circle?

(a) -5 and 5

(b) -1 and 1

(c) 1.35 and 6.65

(d) 1.76 and 6.24
Answer:

412. The dimensions of a rectangular solid are 3 inches by 4 inches by inches. The length of each edge of the solid is to be increased by 20%. What is the surface area, in square inches, of the new solid?

(a) 86.4

(b) 94

(c) 112.8

(d) 135.4
Answer:

413. If $a - b + c = 7$ and $a + b - c = 11$, which of the following statements MUST be true?

I. a is positive
II. b > c
III. bc < 0

(a) None

(b) I only

(c) II only

(d) I and II only
Answer:

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414. If a − b = 1, b − c = 2, and c − a = d, what is the value of d?

(a) -3

(b) -1

(c) 1

(d) 3
Answer:

415. If f (x) = x^2 + 2x, what is f (3) + f (−3)?

(a) 15

(b) 16

(c) 17

(d) 18
Answer:

416. If f (x) = x^2 + 2x, what is f (x + 2)?

(a) x^2 + 2x + 4

(b) x^2 + 2x + 8

(c) x^2 + 6x + 4

(d) x^2 + 6x + 8
Answer:

417. If f (x) = 3x + 3, for what value of a is it true that 3f (a) = f (2a)?

(a) -3

(b) -2

(c) 0

(d) 2

Answer:

418. If the sum of three consecutive integers is less than 75, what is the greatest possible value of the smallest of the three integers?

(a) 21

(b) 22

(c) 23

(d) 24

Answer:

419. If 2 < x < 4 and 3 < y < 7, what is the largest integer value of x + y?

(a) 8

(b) 9

(c) 10

(d) 11

Answer:

420. If a is the remainder when 999 is divided by 7, and b is the remainder when 777 is divided by 9, what is the remainder when a is divided by b?

(a) 0

(b) 1

(c) 2

(d) 3
Answer:

421. How many positive integers less than 100 have a remainder of 3 when divided by 7?

(a) 12

(b) 13

(c) 14

(d) 15
Answer:

422. For any positive integer a, let [a] denote the smallest prime factor of a. Which of the following is equal to [35]?

(a) [10]

(b) [15]

(c) [45]

(d) [55]
Answer:

423. What is the smallest number that is divisible by both 34 and 35?

(a) 990

(b) 1090

(c) 1190

(d) 1290
Answer:

424. If $2^x = 32$, what is x^2?

(a) 9

(b) 16

(c) 25

(d) 36
Answer:

425. If $3^a \times 3^b = 3^{100}$ what is the average (arithmetic mean) of a and b?

(a) 40

(b) 50

(c) 60

(d) 70
Answer:

426. Which of the following statements is (are) true?

I. −210 > 0
II. − (−2)10 > 0
III. 210 − (−2)10 > 0

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(a) None

(b) I only

(c) III only

(d) I and III only
Answer:

427. What is the circumference of a circle whose area is 10p?

(a) 5p

(b) 10p

(c) $\pi\sqrt{10}$

(d) $2\pi\sqrt{10}$

Answer:

428. What is the value of $5^{\frac{1}{5}} \times 5^{\frac{2}{5}} \times 5^{\frac{3}{5}} \times 5^{\frac{4}{5}}$?

(a) 5

(b) 10

(c) 25

(d) 125
Answer:

429. If a = 3(x − 7) and b = 3x − 7, what is the value of a − b?

(a) -28

(b) -14

(c) 0

(d) 3x – 14

Answer:

430. What is the average (arithmetic mean) of 3^{10}, 3^{20}, and 3^{30}?

(a) 60

(b) 3^{20}

(c) 3^{30}

(d) $3^9 + 3^{19} + 3^{29}$

Answer:

431. Brian gave 20% of his baseball cards to Scott and 15% to Adam. If he still had 520 cards, how many did he have originally?

(a) 500

(b) 600

(c) 700

(d) 800

Answer:

432. After Michael gave 110 baseball cards to Sally and 75 to Heidi, he had 315 left. What percent of his cards did Michael give away?

(a)34

(b) 35

(c) 36

(d) 37
Answer:

433. In 1970 the populations of town A and town B were the same. From 1970 to 1980, however, the population of town A increased by 60% while the population of town B decreased by 60%. In 1980, the population of town B was what percent of the population of town A?

(a) 25%

(b) 36%

(c) 40%

(d) 60%
Answer:

434. From 2003 to 2004, the number of applicants to a college increased 15% to 5060. How many applicants were there in 2003?

(a) 759

(b) 4301

(c) 4400

(d) 5819
Answer:

435. The population of a town doubled every 10 years from 1960 to 1990. What was the percent increase in population during this time?

(a) 600

(b) 700

(c) 800

(d) 900
Answer:

436. If the ratio of boys to girls at a school picnic is 5:3, which of the following CANNOT be the number of children at the picnic?

(a) 24

(b) 40

(c) 96

(d) 150
Answer:

437. The measures of the two acute angles of a right triangle are in the ratio of 5:13. What is the measure of the larger acute angle?

(a) 30

(b) 45

(c) 65

(d) 75
Answer:

438. The probability of having a girl is identical to the probability of having a boy. In a family with three children, what is the probability that all the children are of the same gender?

(a) 1/8

(b) 1/6

(c) 1/3

(d) ¼
Answer:

439. A buyer buys 3 different items out of the newly introduced 10 different items. If two items were to be selected at random, what is the probability that the buyer does not have both the chosen items?

(a) 1/15

(b) 3/15

(c) 7/15

(d) 9/16
Answer:

440. A community of 3 people is to be selected from 5 married couples, such that the community does not include two people who are married to each other. How many such communities are possible?

(a) 40

(b) 60

(c) 70

(d) 80
Answer:

441. There are three secretaries who work for four departments. If each of the four departments has one report to be typed out, and the reports are randomly assigned to a secretary, what is the probability that all three secretaries are assigned at least one report?

(a) 5/9

(b) 2/3

(c) 7/9

(d) 8/9
Answer:

442. Jar A and jar B each contain 70 marbles, all of which are red, white, or blue.

In jar A, R:W = 2:3 and W:B = 3:5.
In jar B, R:W = 2:3 and W:B = 4:5.

(a) 21

(b) 24

(c) 45

(d) 55
Answer:

443. If a apples cost c cents, how many apples can be bought for d dollars?

(a) 100acd

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(b) 100d/ac

(c) ad/100c

(d) 100ad/c
Answer:

444. If p is inversely proportional to q2, and if q = 2 when p = 6, what is the value of p when q = 6?

(a) 1

(b) 1/3

(c) 2/3

(d) 3
Answer:

445. A car averages 27 miles per gallon. If gas costs $4.04 per gallon, which of the following is closest to how much the gas would cost for this car to travel 2,727 typical miles?

(a) $ 44.44

(b) $109.08

(c) $118.80

(d) $408.04
Answer:

446. When x = 3 and y = 5, by how much does the value of 3x2 – 2y exceed the value of 2x2 – 3y ?

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(a) 4

(b) 14

(c) 16

(d) 20
Answer:

447. What is the value of x when 2x + 3 = 3x − 4 ?

(a) –7

(b) -1/5

(c) 1

(d) 7
Answer:

448. What is the greatest common factor of 42, 126, and 210 ?

(a) 2

(b) 6

(c) 14

(d) 42
Answer:

449. Sales for a business were 3 million dollars more the second year than the first, and sales for the third year were double the sales for the second year. If sales for the third year were 38 million dollars, what were sales, in millions of dollars, for the first year?

(a) 16

(b) 17.5

(c) 20.5

(d) 22
Answer:

450. In the figure below, ray $\overrightarrow{EF}$ was constructed starting from rays $\overrightarrow{ED}$ and $\overrightarrow{EG}$. By using a compass, D and G were marked equidistant from E on rays $\overrightarrow{ED}$ and $\overrightarrow{EG}$. The compass was then used to locate a point F, distinct from E, so that F is equidistant from D and G. For all constructions defined by the above steps, the measures of ∠DEF and ∠GEF:
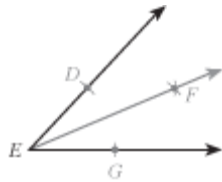
(a) are equal

(b) are NOT equal

(c) sum to 30°

(d) sum to 45°
Answer:

451. Abandoned mines frequently fill with water. Before an abandoned mine can be reopened, the water must be pumped out. The size of pump required depends on the depth of the mine. If pumping out a mine that is D feet deep requires a pump that pumps a minimum of $\frac{D^2}{25}$

(a) 362

(b) 500

(c) 800

(d) 1,250
Answer:

452. The length, in inches, of a box is 3 inches less than twice its width, in inches. Which of the following gives the length, l inches, in terms of the width, w inches, of the box?

(a) l = 2w + 3

(b) l = w + 3

(c) l = w − 3

(d) l = 2w − 3
Answer:

453. In quadrilateral PQRS below, sides PS and QR are parallel for what value of x ?
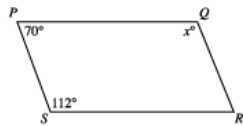
(a) 158

(b) 132

(c) 120

(d) 110
Answer:

454. How many irrational numbers are there between 1 and 6 ?

(a) 1

(b) 3

(c) 4

(d) Infinitely many
Answer:

455. A typical high school student consumes 67.5 pounds of sugar per year. As part of a new nutrition plan, each member of a track team plans to lower the sugar he or she consumes by at least 20% for the coming year. Assuming each track member had consumed sugar at the level of a typical high school student and will adhere to this plan for the coming year, what is the maximum number of pounds of sugar to be consumed by each track team member in the coming year?

(a) 14

(b) 44

(c) 48

(d) 54
Answer:

456. In the standard (x, y) coordinate plane below, 3 of the vertices of a rectangle are shown. Which of the following is the 4th vertex of the rectangle?

(a) (3,–7)
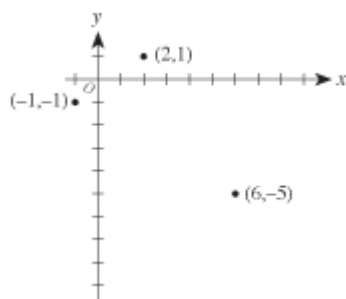
(b) (4,–8)

(c) (5,–1)

(d) (8,–3)
Answer:

457. The lead of a screw is the distance that the screw advances in a straight line when the screw is turned 1 complete turn. If a screw is 2 1/2 inches long and has a lead of 1/8 inch, how many complete turns would get it all the way into a piece of wood?

(a) 5

(b) 10

(c) 15

(d) 20
Answer:

458. If xy = 144, x + y = 30, and x > y, what is the value of x – y ?

(a) 4

(b) 6

(c) 18

(d) 22
Answer:

459. Which of the following is the sine of A in the right triangle below?
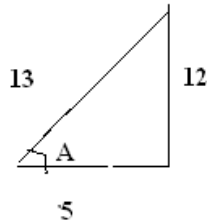
(a) 5/13

(b) 5/12

(c) 12/13

(d) 12/5
Answer:

460. If f(x)=3x+12/2x+12 , what value does f(x) approach as x gets infinitely larger?

(a) -6

(b) -3/2

(c) -1

(d) 3/2
Answer:

461. Alison deposits $500 into a new savings account that earns 5 percent interest compounded annually. If Alison makes no additional deposits or withdrawals, how many years will it take for the amount in the account to double?

(a) 14

(b) 15

(c) 19

(d) 20

Answer:

462.
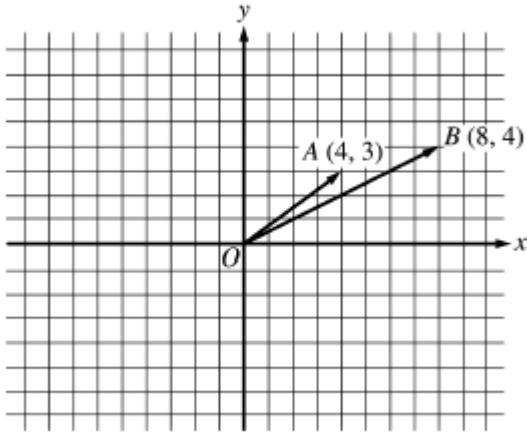
In the figure above, when OB is subtracted from OA, what is the length of the resultant vector?

(a) 3

(b) 4.1

(c) 5

(d) 8.9

Answer:

463. In In the xy-plane, what is the area of a triangle whose vertices are $\left(\sqrt{2}, 0\right)$, $\left(2, \sqrt{10}\right)$, and (5,0)?

(a) 3.59

(b) 5.67

(c) 7.91

(d) 11.18

Answer:

464. A right circular cylinder has radius 3 and height 3. If A and B are two points on its surface, what is the maximum possible straight-line distance between A and B?

(a) $3\sqrt{6}$

(b) $3\sqrt{5}$

(c) 6

(d) $3\sqrt{3}$

Answer:

465. Which of the following is NOT a point on the graph of $f(x) = x^2 + 4/x^2$?

(a) (1, 5I

(b) (−1, 5)

(c) (2, 5)

(d) (−2, −5)

Answer:

466. Which of the following could be the equation of the graph shown in the figure below?
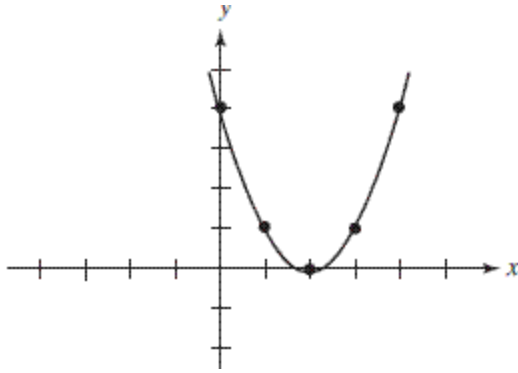
(a) y = −2x + 4

(b) y = 2x + 4

(c) y = x2

(d) y = x2 − 4x + 4
Answer:

467. Which of the following numbers is NOT in the domain of?
$f(x) = \sqrt{4 - x}$?
(a) -6

(b) -4

(c) 0

(d) 6
468. Which of the following is NOT in the range of $f(x) = x^2 - 3$?

(a) 6

(b) 1

(c) 0

(d) -6
Answer:

469. If the figure below is the graph of y = f(x), which of the following is the graph of y = f(x + 2)?

y = f(x)

(a)

(A)

(b)

(B)

(c)

(C)
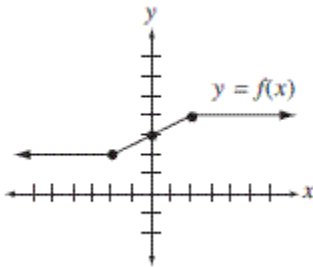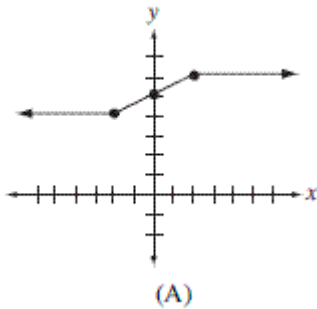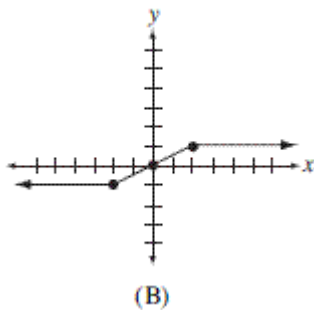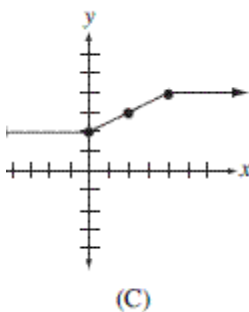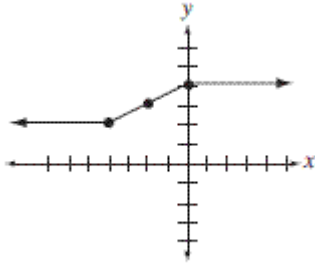
(d)   (D)

Answer:

470. If A is the solution set of the equation $x^2 - 4 = 0$ and B is the solution set of the equation $x^2 - 3x + 2 = 0$, how many elements are in the union of the two sets?

(a) 1

(b) 2

(c) 3

(d) 4

Answer:

471. What is the value of $\left| \left| 3 \right| - \left| -5 \right| \right|$?

(a) -8

(b) -2

(c) 0

(d) 2

Answer:

472. How many integers satisfy the inequality $|x| < p$?

(a) 0

(b) 3

(c) 4

(d) 7
Answer:

473. What is the sum of the product and the quotient of 7 and 7?

(a) 7

(b) 1

(c) 49

(d) 50
Answer:

474. If the product of 10 numbers is positive, what is the greatest number of them that could be negative?

(a) 1

(b) 5

(c) 9

(d) 10
Answer:

475. What is the greatest of 3 consecutive integers whose sum is 24 ?

(a) 6

(b) 7

(c) 8

(d) 9
Answer:

476.
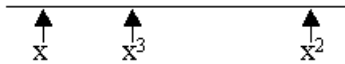
Considering the positions on the number line above, which of the following could be a value for x?

(a) 5/3

(b) 3/5

(c) -2/5

(d) -5/2
Answer:

477. A piece of ribbon 4 yards long is used to make bows requiring 15 inches of ribbon for each. What is the maximum number of bows that can be made?

(a) 8

(b) 9

(c) 10

(d) 11
Answer:

478. How many numbers between 200 and 400 begin or end with 3 ?

(a) 20

(b) 60

(c) 100

(d) 110
Answer:

479. Company X receives 16 applications for a job, 6 of which are from present employees of the company. If 3 of the applicants are to be hired, including exactly one of the applicants who is not a present employee of the company, how many distinct groups of applicants can be selected?

(a) 560

(b) 270

(c) 225

(d) 150
Answer:

480. What is the remainder when $x^2 - y^2$ is divided by 3?
(1) x^2 is divisible by 6.
(2) y^2 is divisible by 9.

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

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(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) EACH statement ALONE is sufficient.
Answer:

481. An oratorical society consists of six members, and at an upcoming meeting, the members will present a total of four speeches. If no member presents more than two of the four speeches, in how many different orders could the members give speeches?

(a) 720

(b) 1080

(c) 1170

(d) 1470
Answer:

482. How many different three-digit numbers contain both the digit 2 and the digit 6?

(a) 52

(b) 54

(c) 56

(d) 60
Answer:

483. As part of a certain game in which a computer generated a random number several times, 6 more numbers greater than 0 resulted than numbers less than 0. 0 never resulted. How many times was the result greater than zero?
(1) 2 more numbers greater than 1 resulted than numbers less than 1.

(2) The sum of all the numbers that resulted was 3.75.

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) Statements (1) and (2) TOGETHER are NOT sufficient.
Answer:

484. The operation & is defined for all integers a and b by the equation a&b = (a - 1)(b - 1). If x&13 = 96, what is the value of x ?

(a) 7

(b) 8

(c) 9

(d) 10
Answer:

485. If f(x) = k(x - k) and k is a constant, what is the value of f(4) - f(3), in terms of k?

(a) 1

(b) k

(c) 7k - 1

(d) k^2 + k
Answer:

486. Points X, Y, and Z lie on circle C, and line segment XY passes through the center of the circle. If the area of circle C is 18pi, what is the greatest possible perimeter of triangle XYZ?

(a) 18

(b) 3r2 + 18

(c) 6r2 + 6

(d) 6r2 + 12
Answer:

487. Certain store sold pens for $0.35 each and pencils for $0.25 each. If a customer purchased both pens and pencils from the store for a total of $2.50, what total number of pens and pencils did the customer purchase?

(a) 8

(b) 9

(c) 10

(d) 11
Answer:

488. A zoologist recorded the number of cubs under the care of each of 12 adult female lions. What was the standard deviation of the numbers of cubs under the care of the 12 adult female lions?

(1) Each of the 12 adult female lions had either 2 or 3 cubs under her care.
(2) 8 of the 12 adult female lions had the same number of cubs under her care.

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) EACH statement ALONE is sufficient.
Answer:

489. When positive integer m is divided by positive integer n, the remainder is 12. If m/n = 24.2, what is the value of n ?

(a) 120

(b) 60

(c) 30

(d) 24
Answer:

490. The dimensions of a rectangular solid are 4 inches, 5 inches, and 8 inches. If a cube, a side of which is equal to one of the dimensions of the rectangular solid, is placed entirely within the rectangular solid, what the ratio of the volume of the cube to the volume within the rectangular solid that is not occupied by the cube?

(a) 2:3

(b) 2:5

(c) 5:16

(d) 25:7
Answer:

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491. Working independently at their respective constant rates, machines X and Y took 15 minutes to fill an order. What fraction of the order was filled by machine X?

(1) Working alone at its constant rate, machine X would have taken 60 minutes to fill the order.
(2) Working alone at its constant rate, machine Y would have taken 20 minutes to fill the order.

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) EACH statement ALONE is sufficient.
Answer:

492. In a certain portfolio, the ratio of the number of domestic stocks to the number of foreign stocks is 7 to 2, and the ratio of the number of mutual funds to the number of foreign stocks is 2 to 3. If the ratio of the number of bonds to the number of domestic stocks is 4 to 3, what is the ratio of the number of mutual funds to the number of bonds?

(a) 28 to 9

(b) 14 to 3

(c) 9 to 28

(d) 1 to 7
Answer:

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493. p is equal to the product of 2^x, 3^y, and 5^z. If x, y, and z are positive integers and x+y+z = 6, what is the smallest possible value of p?

(a) 64

(b) 240

(c) 360

(d) 640
Answer:

494. Is x^3 less than x ?

(1) x^3 is less than 1.
(2) x is greater than -1.

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) Statements (1) and (2) TOGETHER are NOT sufficient.
Answer:

495. If x is a randomly chosen integer between 1 and 20, inclusive, and y is a randomly chosen integer between 21 and 40, inclusive, what is the probability that xy is a multiple of 4?

(a) 1/4

(b) 1/3

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(c) 3/8

(d) ½
Answer:

496. An "interior segment" of a polygon is defined as any line segment that can be drawn between two points of a polygon except for the sides of the polygon itself. If polygon P is a regular octagon, how many interior segments does P have?

(a) 20

(b) 28

(c) 36

(d) 48
Answer:

497. What is the value of $6x^2 + x - 1$?
(1) $x(x + 3) = 0$
(2) $x = -3$

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) EACH statement ALONE is sufficient.
Answer:

498. A certain play is to be performed with an equal number of male and female actors. If 2 different male actors and 5 different female actors are available to perform, how many different combinations of actors could be chosen to perform the play?

(a) 10

(b) 20

(c) 30

(d) 40
Answer:

499. A television advertising break is to consist of six 30-second advertisements. If the second, fourth, and sixth of the 30-second spots are to be filled with three different advertisements for company X and the other spots are to be filled with one advertisement each for companies A, B, and C, in how many different ways can the six advertisements be ordered?

(a) 729

(b) 720

(c) 120

(d) 36
Answer:

500. How many of the 75 employees in a certain company had neither five years of experience nor a college degree?
(1) Of the 75 employees, 30 had both five years of experience and a college degree.
(2) Of the 75 employees, 20 had five years of experience but not a college degree.

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

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(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) Statements (1) and (2) TOGETHER are NOT sufficient.
Answer:

501. For all integer values of n, n# is defined as 2^n. What is the value of 8# - 7# ?

(a) 1

(b) 2

(c) 56

(d) 128
Answer:

502. f(f(2)) = 16 for all of the following functions EXCEPT

(a) f(x) = 16

(b) f(x) = x + 7

(c) f(x) = (x + 14)/2

(d) f(x) = (2r2)x
Answer:

503. If J and K are points in a plane and J lies inside the circle C with center O and radius 4, does K lie inside circle C?
(1) The length of line segment JK is 1
(2) The length of line segment OJ is 2.5

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

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(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) EACH statement ALONE is sufficient.
Answer:

504. On the xy-coordinate plane, what is the area of a triangle with vertices at (-4, -3), (5, -3), and (-2, -7) ?

(a) 4

(b) 9

(c) 12

(d) 18
Answer:

505. If z is a multiple of 24, what is the remainder when z^2 is divided by 9?

(a) 0

(b) 1

(c) 2

(d) 4
Answer:

506. certain toy store sold 20 toys yesterday, each of which was either a $40 toy or a $20 toy. How many $20 toys did the toy store sell?
(1) The average price of the toys sold yesterday was $35.
(2) The total price of the 20 toys sold yesterday was between $650 and $750.

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(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) EACH statement ALONE is sufficient.
Answer:

507. The average (arithmetic mean) score of x students on a certain exam is 81. If one additional student takes the exam and scores a 99, the average score will increase to 83. What is the value of x ?

(a) 7

(b) 8

(c) 9

(d) 10
Answer:

508. y = kx - 2
In the equation above, k is a constant. If the value of y when x = 4 is 5 less than the value of y when x = 6, what is the value of y when x = 24 ?

(a) 21

(b) 58

(c) 60

(d) 102
Answer:

509. Is x negative?
(1) 2x > x^2
(2) x < 1

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) EACH statement ALONE is sufficient.
Answer:

510. Jack has a total of b hardback and paperback books in his library. If the number of hardback books is 1/3 the number of paperback books, and 3/4 of the of the paperback books are biographies, how many biographies, in terms of b, are in Jack's library?

(a) (1/9)b

(b) (3/20)b

(c) (3/16)b

(d) (9/16)b
Answer:

511. If y is an integer greater than 2, all of the following must be divisible by 4 EXCEPT

(a) 2y(y+1)(y-1)

(b) y(2y+2)(y-3)

(c) y(y+3)(2y - 4)

(d) 2y(y+4)(y - 2)
Answer:

512. The total daily cost of operating a certain roller coaster is $600 plus $0.50 per person who rides the roller coaster. If on Tuesday, 1,500 people pay an average of $2 to ride the roller coaster, how much greater are the roller coaster's revenues than its operating costs?

(a) $2,400

(b) $2,250

(c) $1,650

(d) $900
Answer:

513. If k is the product of the integers from 1 to 20, inclusive, what is the greatest integer n for which 4^n is a factor of k ?

(a) 5

(b) 7

(c) 9

(d) 10
Answer:

514. Which of the following is equivalent to the pair of inequalities y > -3x and -z > 2x ?

(a) -2y < 6x < -3z

(b) 2y < -6x < -3z

(c) -3x < y < -z

(d) 3x < z < -y
Answer:

515. If 5,400n is the square of an integer, what is the smallest possible integer value of n?

(a) 2

(b) 3

(c) 5

(d) 6
Answer:

516. Is the range of the integers 8, 2, x, 4, 5, and y greater than 9 ?
(1) y > x + 3
(2) y > x > 7

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) EACH statement ALONE is sufficient.
Answer:

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517. The sum of the first 50 positive odd integers is 2,500. What is the sum of the odd integers from 101 to 199, inclusive?

(a) 4,950

(b) 5,000

(c) 7,450

(d) 7,500
Answer:

518. Monika ran x percent of the total distance of a race at an average speed of 6 miles per hour and the rest of the distance at an average speed of 8 miles per hour. What was Monika's average speed, in terms of x, for the entire race?

(a) (x - 24)/3

(b) (x + 8)/6

(c) (48 - x)/5

(d) 2400/(x + 300)
Answer:

519. In the xy-plane, does the point (6,-2) lie on line k ?
(1) The x-intercept of line k is 4.
(2) The y-intercept of line k is 4.

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) EACH statement ALONE is sufficient.
Answer:

520. If xy = mx and xym is not equal to 0, which of the following must be true?

(a) x < y

(b) m - x = 0

(c) m - y = 0

(d) mx > 0
Answer:

521. The host of a party predicts that 40 percent of the people she invites will not attend her party. According to this prediction, how many guests should she invite so that x people attend her party?

(a) (6/5)x

(b) (4/3)x

(c) (7/5)x

(d) (5/3)x
Answer:

522. The number N is 4,5H2, the ten's digit being represented by H. What is the value of H ?
(1) N is divisible by 3.
(2) N is divisible by 9.

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) EACH statement ALONE is sufficient.
Answer:

523. If n is an odd integer, which of the following must also be an odd integer?

(a) 2n

(b) 2n^2

(c) n^2 + 2n

(d) n^2 + 3n
Answer:

524. The probability is 1/2 that a certain coin will turn up heads on any given toss. If the coin is to be tossed four times, what is the probability that on at least one of the tosses the coin will turn up tails?

(a) 1/16

(b) 1/8

(c) 1/2

(d) 15/16
Answer:

525. Is the product of a certain pair of integers odd?
(1) At least one of the integers is even.
(2) The sum of the integers is odd.

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) EACH statement ALONE is sufficient.
Answer:

526. power windows: 60%
anti-lock brakes: 25%
CD player: 40%

The table above shows the number of vehicles at Bill's car dealership that have certain features. No vehicle has all three features, but 10% have power windows and anti-lock brakes, 15% have anti-lock brakes and a CD player, and 22% have power windows and a CD player. What percent of the vehicles at Bill's car dealership have a CD player but no power windows or anti-lock brakes?

(a) 25

(b) 18

(c) 11

(d) 3
Answer:

527. Canister C is 1/2 full of water and canister D, which has twice the capacity of canister C, is 1/3 full of water. If the water in canister D is poured in canister C until canister C is completely full of water, canister D will still contain what fraction of its capacity of water?

(a) 0

(b) 1/36

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(c) 1/12

(d) 1/6
Answer:

528. If z = 0.rstu, where r, s, t, and u each represent a nonzero digit of z, what is the value of z ?
(1) rs > tu
(2) r = 6s = 2t = 3u

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) EACH statement ALONE is sufficient.
Answer:

529. If the two-digit integers A and B are positive and have the same digits, but in reverse order, which of the following could be the sum of A and B ?

(a) 108

(b) 120

(c) 132

(d) 144
Answer:

530. If 60 percent of the DVDs in Katie's collection are American-made movies, 35 percent of the DVDs in her collection are comedies,and 30 percent are neither American-made nor comedies, what percent of the DVDs in Katie's collection are both American-made and comedies?

(a) 15

(b) 25

(c) 40

(d) 60
Answer:

531. Is the perimeter of triangle T greater than the perimeter of square S ?
(1) T is an isoceles right triangle.
(2) The length of the longest side of T is equal to the length of a diagonal of S.

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) EACH statement ALONE is sufficient.
Answer:

532. If the function $f(x) = k(x - k)$ and k is a constant, what is the value of $f(4) - f(3)$, in terms of k?

(a) 1

(b) k

(c) 7k - 1

(d) $k^2 + k$
Answer:

533. If x^2 - 9 = 0 and x < 0, which of the following must be equal to 0 ?

(a) x^2 - 9x

(b) x^2 - 9x + 20

(c) x^2 - 2x + 3

(d) x^2 + 2x − 3
Answer:

534. What is the value of xy ?
(1) x + y = 10
(2) x - y = 4

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) EACH statement ALONE is sufficient.
Answer:

535. If x = 1/2, then x^-1 + x^-2 + x^-3 + x^-4 =

(a) 1/32

(b) 15/16

(c) 1

(d) 30
Answer:

536. Three years from now, Dathan will be three times as old as Ellen and Ellen will be six years younger than Famke. If Dathan's age is three years less than twice Famke's age, how old is Famke?

(a) 9

(b) 15

(c) 21

(d) 27
Answer:

537. What is the value of b ?
(1) b - x = x - b
(2) b - x = 0

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) Statements (1) and (2) TOGETHER are NOT sufficient.
Answer:

538. The "factor count" of an integer n greater than 1 is the number of distinct prime factors of n. For example, the factor count of 36 is 2, since 2 and 3 are the distinct prime factors of 36 = 2 x 2 x 3 x 3. For which of the following integers is the factor count greatest?

(a) 60

(b) 61

(c) 62

(d) 63
Answer:

539. If a is to be chosen at random from the integers between 1 to 5, inclusive, and b is to be chosen at random from the integers between 6 and 10, inclusive, what is the probability that a + b will be even?

(a) 6/25

(b) 2/5

(c) 12/25

(d) 3/5
Answer:

540. Revenues were recorded for Store A and Store B over a period of three months. In the first month, Store A's revenues were $40,000 higher than Store B's revenues. In the second month, Store A's revenues were $8,000 higher than Store B's revenues. If Store A's average (arithmetic mean) monthly revenue for the three months was $2,000 greater than Store B's average monthly revenue, then Store B's revenue in the third month was how much greater than Store A's revenue?

(a) $14,000

(b) $15,000

(c) $42,000

(d) $46,000
Answer:

541. Which of the following lines in the xy-plane does not contain any point with two negative coordinates?

(a) $y = x$

(b) $y = x + 10$

(c) $y = x^2 - 2$

(d) $y = x^4$

Answer:

542. The average (arithmetic mean) of 10 numbers is 3.1. When five numbers are discarded, the average of the remaining numbers becomes 2.85. What is the average of the five discarded numbers?

(a) 2.60

(b) 3.15

(c) 3.35

(d) 4.15

Answer:

543. What is the smallest integer such that $1/(2^n) < 0.005$?

(a) 8

(b) 9

(c) 10

(d) 11

Answer:

544. If p > 3 and 6x - 2p = 0, which of the following must be true?

(a) x > -1

(b) x < -1

(c) x > 1

(d) x < 1
Answer:

545. Of Company X's 60 employees who work the early shift, 40 percent are paid more than $1,000 per week. Of Company X's 40 employees who work the late shift, 60 percent are paid more than $1,000 per week. For the two shifts combined, what percent of the employees are paid more than $1,000 per week?

(a) 45%

(b) 48%

(c) 50%

(d) 52%
Answer:

546. If $9^{(x + 3)} = 3^{(4x - 1)}$, then x =

(a) 4/3

(b) 3

(c) 7/2

(d) 7
Answer:

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547. If $y = x^3$ and $z = x^4$, what is the square root of y/xz ?

(a) $1/x^2$

(b) $1/x$

(c) x

(d) x^2
Answer:

548. What is the value of $4x + 18$?
(1) $2x + 9 = 14$
(2) $8x + 18 = 38$

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) EACH statement ALONE is sufficient.
Answer:

549. If $x > y > 1$, which of the following could be the least common multiple of two positive integers x and y ?

(a) $x + 1$

(b) $y - 1$

(c) $x - y$

(d) $xy/2$

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Answer:

550. Last year Company X spent 20 percent of its revenue on employee compensation. This year its revenues were 10 percent more than last year and it spent 25 percent of its revenue on employee compensation. The amount spent on employee compensation this year was what percent of the amount spent last year?

(a) 105.0%

(b) 125.0%

(c) 127.5%

(d) 137.5%
Answer:

551. If a, b, c, and d are nonzero numbers and a - b = c - d, which of the following is equal to -1 ?

(a) (a - c)/(d - b)

(b) (a - d)/(b - c)

(c) (b - c)/(d - a)

(d) (b - d)/(a - c)
Answer:

552. In 2003, a corporation with a market capitalization of $35.10 billion repurchased corporate stock with a market value of $17.57 million. Approximately what percent of market capitalization was represented by the stock repurchase? (Note: 1 billion = 10^9)

(a) 5%

(b) 2%

(c) 0.5%

(d) 0.05%
Answer:

553. What is the thousandths digit of the decimal p ?
(1) p is equivalent to the fraction 4/7.
(2) The units digit of 100p is 2.

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) EACH statement ALONE is sufficient.
Answer:

554. When a is even]a[= a/2 + 1. When a is odd,]a[= 2a + 1. Which of the following is equal to]7[times]4[?

(a)]22[

(b)]44[

(c)]45[

(d)]88[
Answer:

555. For a finite sequence of nonzero integers, the consecutiveness of the sequences is defined by the number of pairs of consecutive terms of the sequence

for which the difference between the two consecutive terms is 1. What is the consecutiveness for the sequence {1, 4, 5, 6, -3, -4} ?

(a) One

(b) Two

(c) Three

(d) Four
Answer:

556. Is the product of integers m and n odd?
(1) m is even
(2) n is odd

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) EACH statement ALONE is sufficient.
Answer:

557. If j&k = $j^2 - 2jk + k^2$ for all integers j and k, then 4&3 =

(a) 49

(b) 13

(c) 1

(d) -1

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Answer:

558. For a finite sequence of nonzero numbers, the primeness of the sequence is defined the fraction of the terms in the sequence that are prime. What is the primeness of the sequence 1, 2, 4, 7, 11, 16 ?

(a) 1/6

(b) 1/3

(c) 1/2

(d) 2/3
Answer:

559. For all even integers n, h(n) is defined to be the sum of the even integers between 2 and n, inclusive. What is the value of h(18)/h(10) ?

(a) 1.8

(b) 3

(c) 6

(d) 18
Answer:

560. If f*g = f/g + (f - g)/2 for all integers f and g, then 6*(-3) =

(a) 6.5

(b) 2.5

(c) -0.5

(d) -2.5

Answer:

561. A can lay railway track between two given stations in 16 days and B can do the same job in 12 days. With the help of C, they did the job in 4 days only. Then, C alone can do the job in

(a) 9x1/5 days

(b) 9x2/5 days

(c) 9x3/5 days

(d) 10 days
Answer:

562. If m and n are whole numbers such that mn = 121, then the value of (m - 1)n+1 is

(a) 1

(b) 10

(c) 121

(d) 1000
Answer:

563. For all even integers n, h(n) is defined to be the sum of the even integers between 2 and n, inclusive. What is the value of h(18)/h(10) ?

(a) 1.8

(b)3

(c) 6

(d) 18
Answer:

564. If f*g = f/g + (f - g)/2 for all integers f and g, then 6*(-3) =

(a) 6.5

(b) 2.5

(c) -0.5

(d) -2.5
Answer:

565. Is the number y between 0.3 and 0.6 ?
(1) 640y < 320
(2) 800y > 320

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) EACH statement ALONE is sufficient.
Answer:

566. Healthcare analyst: Consumers should avoid purchasing low-cost insurance plans from a certain health insurance company that has been touted as a resource for those who need to reduce the cost of their monthly premiums. Although the low-cost insurance plan, which costs up to fifty percent less than other insurance plans, has short-term financial benefits, it does have a serious drawback: it does not cover brand-name drugs, thereby costing consumers as much as several

hundred dollars per month. In evaluating the columnist's position, it would be most useful for a consumer to determine which of the following?

(a) Whether the reduction in the cost of monthly premiums is likely to be greater than the monthly cost of brand-name drugs

(b) Whether the low-cost insurance plan covers medical procedures that require supplemental use of brand-name drugs

(c) Whether low-cost insurance plans offer consumers the same choice of physicians that higher-cost plans offer

(d) Whether the low-cost insurance plan covers the cost of generic alternatives to brand-name drugs
Answer:

567. A = {2, 4, 6, 8}
B = {2, 4, 6, 8, 12}

Two integers will be randomly selected from the sets above, one integer from set A and one integer from set B. What is the probability that the product of the two integers will equal 24?

(a) 0.10

(b) 0.15

(c) 0.20

(d) 0.25
Answer:

568. Vivian paid a sales tax of 6 percent on her purchase. If the sales tax had been 8 percent, she would have paid $7 more. What was the total amount Vivian paid for her purchase, including sales tax?

(a) $350

(b) $371

(c) $378

(d) $385
Answer:

569. Is ax = 6 - bx ?
(1) a = b
(2) 2ax = 6

(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

(d) EACH statement ALONE is sufficient.
Answer:

570. A certain bookstore sold 2,000 bookmarks at $1 each and 200 books at $10 each. If the bookstore's total cost for the bookmarks and books was $1,000, what was the bookstore's total gross profit on these items?

(a) $1,000

(b) $2,000

(c) $3,000

(d) $4,000
Answer:

571. A certain juice manufacturer increased the number of ounces in Product N by 25 percent but did not change the price. What was the resulting percent decrease in the price per ounce of Product N?

(a) 10%

(b) 20%

(c) 25%

(d) 30%
Answer:

572. Exactly two sides of a certain 10-sided die are red. What is the probability that Kumar rolls the die 3 times and the die lands with a red side up for the first time on the third roll?

(a) 0.032

(b) 0.064

(c) 0.128

(d) 0.200
Answer:

573. A tennis marker is trying to put together a team of four players for a tennis tournament out of seven available. males - a, b and c; females - m, n, o and p. All players are of equal ability and there must be at least two males in the team. For a team of four, all players must be able to play with each other under the following restrictions: b should not play with m, c should not play with p, and a should not play with o. Which of the following statements must be false?

(a) b and p cannot be selected together

(b) c and o cannot be selected together

(c) c and n cannot be selected together

(d) c and p cannot be selected together
Answer:

574. A man bought a horse and a cart. If he sold the horse at 10 % loss and the cart at 20 % gain, he would not lose anything; but if he sold the horse at 5% loss and the cart at 5% gain, he would lose Rs. 10 in the bargain. The amount paid by him was Rs.- _____ for the horse and Rs._____ for the cart.

(a) Cost price of horse = Rs. 200 & the cost price of cart = 200

(b) Cost price of horse = Rs. 400 & the cost price of cart = 400

(c) Cost price of horse = Rs. 400 & the cost price of cart = 200

(d) Cost price of horse = Rs. 200 & the cost price of cart = 400
Answer:

575. What is a percent of b divided by b percent of a?

(a) a

(b) b

(c) 100

(d) 1
Answer:

576. A contractor agreeing to finish a work in 150 days, employed 75 men each working 8 hours daily. After 90 days, only 2/7 of the work was completed.

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Increasing the number of men by _____ each working now for 10 hours daily, the work can be completed in time.

(a) 50

(b) 100

(c) 150

(d) 225
Answer:

577. A man was engaged on a job for 30 days on the condition that he would get a wage of Rs. 10 for the day he works, but he have to pay a fine of Rs. 2 for each day of his absence. If he gets Rs. 216 at the end, he was absent for work for ... days.

(a) 3

(b) 5

(c) 7

(d) 10
Answer:

578. A dishonest shopkeeper professes to sell pulses at the cost price, but he uses a false weight of 950gm. for a kg. His gain is____%.

(a) 5%

(b) 5.1%

(c) 5.2%

(d) 5.3%

Answer:

579. A student divided a number by 2/3 when he required to multiply by 3/2. Calculate the percentage of error in his result.

(a) 0%

(b) 1%

(c) 50%

(d) 100%
Answer:

580. It was calculated that 75 men could complete a piece of work in 20 days. When work was scheduled to commence, it was found necessary to send 25 men to another project. How much longer will it take to complete the work?

(a) 20

(b) 30

(c) 40

(d) 50
Answer:

581. It takes Mr. Karthik y hours to complete typing a manuscript. After 2 hours, he was called away. What fractional part of the assignment was left incomplete?

(a) $(y - 2) / y$

(b) $(y - 2) / 2$

(c) $(2 - y) / y$

(d) (2 - y) / 2
Answer:

582. The length of the side of a square is represented by x+2. The length of the side of an equilateral triangle is 2x. If the square and the equilateral triangle have equal perimeter, then the value of x is _____.

(a) 2

(b) 4

(c) 6

(d) 8
Answer:

583. If every alternative letter starting from B of the English alphabet is written in small letter, rest all are written in capital letters, how the month "September" be written.

(a) SeptEMbEr

(b) SEpTeMBEr

(c) SeptembeR

(d) None of the above
Answer:

584. If point P is on line segment AB, then which of the following is always true?

(a) AP = PB

(b) AP > PB

(c) PB > AP

(d) AB > AP
Answer:

585. If a light flashes every 6 seconds, how many times will it flash in ¾ of an hour?

(a) 440

(b) 450

(c) 451

(d) 452
Answer:

586. Five boys were climbing a hill. J was following H. R was just ahead of G. K was between G & H. They were climbing up in a column. Who was the second?

(a) G

(b) H

(c) J

(d) R
Answer:

587. Five farmers have 7, 9, 11, 13 & 14 apple trees, respectively in their orchards. Last year, each of them discovered that every tree in their own orchard bore exactly the same number of apples. Further, if the third farmer gives one apple to the first, and the fifth gives three to each of the second and the fourth, they would all have exactly the same number of apples. What were the yields per tree in the orchards of the third and fourth farmers?

(a) 9 & 11 apples per tree

(b) 11 & 9 apples per tree

(c) 11 & 11 apples per tree

(d) 12 & 10 apples per tree
Answer:

588. A man bought a horse and a cart. If he sold the horse at 10 % loss and the cart at 20 % gain, he would not lose anything; but if he sold the horse at 5% loss and the cart at 5% gain, he would lose Rs. 10 in the bargain. The amount paid by him was Rs.- _____ for the horse and Rs._____ for the cart.

(a) Cost price of horse: Rs. 200 & Cost price of cart: Rs. 200

(b) Cost price of horse: Rs. 400 & Cost price of cart: Rs. 200

(c) Cost price of horse: Rs. 400 & Cost price of cart: Rs. 400

(d) Cost price of horse: Rs. 400 & Cost price of cart: Rs. 600
Answer:

589. There are 3 persons Sudhir, Arvind, and Gauri. Sudhir lent cars to Arvind and Gauri as many as they had already. After some time Arvind gave as many cars to Sudhir and Gauri as many as they have. After sometime Gauri did the same thing. At the end of this transaction each one of them had 24. Find the cars each originally had.

(a) Sudhir had 21 cars, Arvind had 39 cars and Gauri had 12 cars

(b) Sudhir had 39 cars, Arvind had 12 cars and Gauri had 21 cars

(c) Sudhir had 12 cars, Arvind had 21 cars and Gauri had 39 cars

(d) Sudhir had 39 cars, Arvind had 21 cars and Gauri had 12 cars
Answer:

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590. The number that does not have a reciprocal is _____

(a) 0

(b) 1

(c) 0 and 1

(d) None of the above
Answer:

591. Divide 45 into four parts such that when 2 is added to the first part, 2 is subtracted from the second part, 2 is multiplied by the third part and the fourth part is divided by two, all result in the same number.

(a) 8, 12, 5, 20

(b)9, 12, 6, 20

(c) 8, 12, 10, 15

(d) 6, 16, 5, 18
Answer:

592. How big will an angle of one and a half degree look through a glass that magnifies things three times?

(a) 1 3/2 degrees

(b) 3 1/2 degrees

(c) 3 3/2 degrees

(d) 1 1/2 degrees

Answer:

593. If time at this moment is 9 P.M., what will be the time 23999999992 hours later?

(a) 1 A.M.

(b) 1 P.M.

(c) 2 P.M.

(d) 6 P.M.
Answer:

594. Diophantus passed one sixth of his life in childhood, one twelfth in youth, and one seventh more as a bachelor; five years after his marriage a son was born who died four years before his father at half his final age. How old is Diophantus?

(a) 82 years

(b) 83 years

(c) 84 years

(d) 96 years
Answer:

595. A cylindrical container has a radius of eight inches with a height of three inches. Compute how many inches should be added to either the radius or height to give the same increase in volume?

(a) 12/3 inches

(b) 14/3 inches

(c) 15/3 inches

(d) 16/3 inches
Answer:

596. A rectangular plate with length 8 inches, breadth 11 inches and thickness 2 inches is available. What is the length of the circular rod with diameter 8 inches and equal to the volume of the rectangular plate?

(a) 2.5 inches

(b) 3.5 inches

(c) 4.5 inches

(d) 5.5 inches
Answer:

597. I drove 60 km at 30 kmph and then an additional 60 km at 50 kmph. Compute my average speed over my 120 km

(a) 34 1/2

(b) 35 1/2

(c) 36 1/2

(d) 37 ½
Answer:
598. Ram completes 60% of a task in 15 days and then takes the help of Rahim and Rachel. Rahim is 50% as efficient as Ram is and Rachel is 50% as efficient as Rahim is. In how many more days will they complete the work?

(a) 13 1/3

(b) 8 1/3

(c) 5 5/7

(d) 7 5/7
Answer:

599. A tank is fitted with 8 pipes, some of them that fill the tank and others that are waste pipe meant to empty the tank. Each of the pipes that fill the tank can fill it in 8 hours, while each of those that empty the tank can empty it in 6 hours. If all the pipes are kept open when the tank is full, it will take exactly 6 hours for the tank to empty. How many of these are fill pipes?

(a) 2

(b) 4

(c) 6

(d) 10
Answer:

600. A boat can travel with a speed of 13 km / hr in still water. If the speed of the stream is 4 km / hr. find the time taken by the boat to go 68 km downstream?

(a) 2 hours

(b) 3 hours

(c) 4 hours

(d) 5 hours
Answer:

601. A boat covers a certain distance downstream in I hour, while it comes back in 1½ hours. If the speed of the stream be 3 kmph. what is the speed of the boat in still Water?

(a) 12kmph

(b) 13kmph

(c) 15kmph

(d) 16kmph
Answer:

602. What is the number of odd days in a leap year ?

(a) 1

(b) 2

(c) 3

(d) 4
Answer:

603. An accurate clock shows 8 o'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 o'clock in the afternoon?

(a) 144°

(b) 150°

(c) 160°

(d) 180°
Answer:

604. A clock is set at 5 a.m. The clock loses 16 minutes in 24 hours. What will be the true time when the clock indicates 10 p.m. on 4th day?

(a) 9 p.m

(b) 10 p.m

(c) 11 p.m

(d) 12 p.m
Answer:

605. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through

(a) 145°

(b) 150°

(c) 155°

(d) 160°
Answer:

606. How many times in a day, are the hands of a clock in straight line but opposite in direction?

(a) 20

(b) 22

(c) 24

(d) 48
Answer:

607. Find compound interest on Rs. 7500 at 4% per annum for 2 years, compounded annually.

(a) Rs.512

(b) Rs.552

(c) Rs.612

(d) Rs.622
Answer:

608. Simple interest on a certain sum of money for 3 years at 8% per annum is half the compound interest on Rs. 4000 for 2 years at 10% per annum. The sum placed on simple interest is

(a) Rs. 1550

(b) Rs. 1650

(c) Rs. 1750

(d) Rs. 2000
Answer:

609.A ladder learning against a wall makes an angle of 60° with the ground. If the length of the ladder is 19 m, find the distance of the foot of the ladder from the wall.

(a) 9 m

(b) 9.5 m

(c) 10.5 m

(d) 12 m
Answer:

610. The angle of elevation of the sun, when the length of the shadow of a tree is v3 times the height of the tree is

(a) 30°

(b) 45°

(c) 60°

(d) 90°
Answer:

611. From a point P on a level ground, the angle of elevation of the top tower is 30°. If the tower is 100 m high, the distance of point P from the foot of the tower is:

(a) 149 m

(b) 156 m

(c) 173 m

(d) 200 m
Answer:

612. Reena and Shaloo are partners in a business. Reena invests Rs. 35,000 for 8 months and shaloo invests Rs.42,000 for 10 months. Out of a profit of Rs.31,570. Reena's share is

(a) Rs.9471

(b) Rs. 12,628

(c) Rs.18,040

(d) Rs.18,942

Answer:

613. Aman started a business investing Rs. 70,000. Rakhi joined him after six months with an amount of Rs.. 1,05,000 and Sagar joined them with Rs. 1.4 lakhs after another six months. The amount of profit earned should be distributed in what ratio among Aman, Rakhi and Sagar respectively, 3 years after Aman started the business?

(a) 7 : 6 : 10

(b) 12 : 15 : 16

(c) 42 : 45 : 56

(d) cannot be determined
Answer:

614. A shopkeeper give 12% additional discount on the discounted price, after giving an initial discount of 20% on the labelled price of a radio. If the final sale price of the radio is Rs.704, then what is its labelled price?

(a) Rs. 844.80

(b) Rs. 929.28

(c) Rs. 1000

(d) Rs. 1044.80
Answer:

615. Peter purchased a machine for Rs. 80,000 and spent Rs.5000 on repair and Rs.1000 on transport and sold it with 25% profit. At what price did he sell the machine?

(a) Rs. 1,05,100

(b) Rs. 1,06,250

(c) Rs. 1,07,500

(d) Rs. 1,17,500
Answer:

616. Present ages of Sameer and Anand are in the ratio of 5 : 4 respectively. Three years hence, the ratio of their ages will become 11 : 9 respectively. What is Anand's present age in years ?

(a) 24

(b) 27

(c) 40

(d) cannot be determined
Answer:

617. My brother is 3 years elder to me. My father was 28 years of age when my sister was born while my mother was 26 years of age when I was bom. If my sister was 4 years of age when my brother was born, then, what was the age of my father and mother respectively when my brother was born ?

(a) 32 yrs, 23 yrs

(b) 32 yrs, 29 yrs

(c) 35 yrs, 29 yrs

(d) 35 yrs, 33 yrs
Answer:

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618. In how many different ways can the letters of the word 'JUDGE' be arranged in such a way that the vowels always come together?

(a) 48

(b) 120

(c) 124

(d) 160
Answer:

619. How many 4-letter words with or without meaning, can be formed out of the letters of the word, 'LOGARITHMS', if repetition of letters is not allowed?

(a) 40

(b) 400

(c) 5040

(d) 2520
Answer:

620. The sum of two numbers is 22. Five times one number is equal to 6 times the other. The bigger of the two numbers is

(a) 10

(b) 12

(c) 15

(d) 16
Answer:

621. Three times the first of three consecutive odd integers is 3 more than twice the third. The third integer is

(a) 9

(b) 11

(c) 13

(d) 15

Answer:

622. A train 100 m long is running at the speed of 30 km/hr. Find the time taken by it to pass a man standing near the railway line.

(a) 10 sec.

(b) 12 sec.

(c) 14 sec.

(d) 16 sec.

Answer:

623. A man sitting in a train which is travelling at 50 kmph observes that a goods train, travelling in opposite direction, takes 9 seconds to pass him. If the goods train is 280 m long, find its speed.

(a) 52 kmph.

(b) 62 kmph.

(c) 72 kmph.

(d) 80 kmph.

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Answer:

624. In an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was

(a) 2500

(b) 2700

(c) 3000

(d) 3100
Answer:

625. Two pipes can fill a tank in 20 and 24 minutes respectively and a waste pipe can empty 3 gallons per minute. All the three pipes working together can fill the tank in 15 minutes. The capacity of the tank is

(a) 60 gallons

(b) 80 gallons

(c) 120 gallons

(d) 160 gallons
Answer:

626. A leak in the bottom of a tank can empty the full tank in 8 hours. An inlet pipe fills water at the rate of 6 litres a minute. When the tank is full, the inlet is opened and due to the leak, the tank is empty in 12 hours. How many litres does the cistern hold ?

(a) 7580

(b) 7960

(c) 8290

(d) 8640
Answer:

627. Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability taht the ticket drawn has a number which is a multiple of 3 or 5?

(a) 1/2

(b) 2/5

(c) 8/15

(d) 9/20
Answer:

628. A box contains 20 electric bulbs, out of which 4 are defective. Two bulbs are chosen at random from this box. The probability that at least one of these is defective

(a) 4/19

(b) 7/19

(c) 12/19

(d) 21/95
Answer:

629. 50 men took a dip in water tank 40 m long and 20 m broad on a religious day. If the average displacements of water by a man is 4 m3, then the rise in the water level in the tank will be

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(a) 20 cm

(b) 25 cm

(c) 35 cm

(d) 50 cm
Answer:

630. A man invested Rs. 14,400 in Rs.100 shares of a company at 20% premium. If the company declares 5% dividend at the end of the year , then how much does he get?

(a) Rs. 500

(b) Rs. 600

(c) Rs. 650

(d) Rs. 720
Answer:

631. An express train travelled at an average speed of 100 km/hr, stopping for 3 minutes after every 75 km. How long did it take to reach its destination 600 km from the starting point?

(a) 6 hrs 21 min

(b) 6 hrs 24 min

(c) 6 hrs 27 min

(d) 6 hrs 30 min
Answer:

632. Sound is said to travel in air at about 1100 feet per second. A man hears the axe striking the tree, 11/5 seconds after he sees it strike the tree. How far is the man from the wood chopper?

(a) 2197 ft

(b) 2420 ft

(c) 2500 ft

(d) 2629 ft
Answer:

633. A man can do a piece of work in 5 days, but with the help pf his son, he can do it in 3 days. In what time can the son do it alone?

(a) 6x1/2 days

(b) 7 days

(c) 7x1/2 days

(d) 8 days
Answer:

634. In how many different ways can the letters of the word 'JUDGE' be arranged in such a way that the vowels always come together?

(a) 24

(b) 48

(c) 124

(d) 160
Answer:

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635. The true discount on a certain sum of money due 3 years hence is Rs.250 and the simple interest on the same sum for the time and at the same rate is Rs.375. Find the sum ?

(a) Rs. 500

(b) Rs. 750

(c) Rs. 1000

(d) Rs. 1250
Answer:

636. A man can do a piece of work in 5 days, but with the help pf his son, he can do it in 3 days. In what time can the son do it alone?

(a) 6x1/2 days

(b) 7 days

(c) 7x1/2 days

(d) 8 days
Answer:

637. An express train travelled at an average speed of 100 km/hr, stopping for 3 minutes after every 75 km. How long did it take to reach its destination 600 km from the starting point?

(a) 6 hrs 21 min

(b) 6 hrs 24 min

(c) 6 hrs 27 min

(d) 6 hrs 30 min
Answer:

638. A man invested Rs. 14,400 in Rs.100 shares of a company at 20% premium. If the company declares 5% dividend at the end of the year , then how much does he get?

(a) Rs. 500

(b) Rs. 600

(c) Rs. 650

(d) Rs. 720
Answer:

639. A classroom has equal number of boys and girls. Eight girls left to play kho-kho, leaving twice as many boys as girls in the classroom. What was the total number of girls and boys present initially?

(a) 16

(b) 24

(c) 32

(d) 48
Answer:

640. A man took a loan from a bank at the rate of 12% p.a. simple interest. After 3 years he had to pay Rs. 5400 interest only for the period. The principal amount borrowed by him was

(a) Rs. 2000

(b) Rs. 10000

(c) Rs. 15000

(d) Rs. 20000
Answer:

641. 50 men took a dip in water tank 40 m long and 20 m broad on a religious day. If the average displacement of water by a man is 4 m3, then the rise in the water level in the tank will be

(a) 20 cm

(b) 25 cm

(c) 35 cm

(d) 50 cm
Answer:

642. A sum of money lent out at simple interest amounts to Rs. 720 after 2 years and to Rs. 1020 after a further period of 5 years. The sum is

(a) Rs. 500

(b) Rs. 600

(c) Rs. 700

(d) Rs. 710
Answer:

643. A clock shows 8 o clock in the morning. Through how many degrees has the hour hand rotated when the clock shows 4 o clock in the afternoon?

(a) 210 degrees

(b) 180 degrees

(c) 270 degrees

(d) 240 degrees
Answer:

644. A room is 45 m by 15 m. What is the fewest number of rectangular tiles required to pave the floor of the room, if each tile is 50 cm by 1 m?

(a) 1350

(b) 925.5

(c) 337.5

(d) 675
Answer:

645.

Michael and Jane are hosting a party for their friends. The cost of the party has to be divided evenly between 22 people. Michael and Jane have bought the following for the party:
- 3 cans of beer per person at a price of $8 pr six-pack
- A bag of chips for every other guest at an average price of $1.25 per bag
- 4 bottles of spirits at $33 per bottle.
- 3 large soda bottles for every bottle of spirits, average price $2.50 per bottle
What is the cost of the party per person?

(a) $10.5

(b) $9.25

(c) $13

(d) $12

Answer:

646. Michael has a 50-dollar gift certificate for a bookstore. He buys 3 books, which each cost 27 dollars. Today the bookstore is offering a 10 percent discount on everything. How much does he pay for the books?

(a) $27.90

(b) $22.90

(c) $25.90

(d) $24.90
Answer:

647. A survey was conducted by the Society of Dog Ownners. 2/9 of dog owners answered they had 1 dog only. 4/6 of dog owners answered they had 2 dogs. The remaining 320 respondents answered they had 3 or more dogs. How many answered they had 1 dog only?

(a) 320

(b) 560

(c) 480

(d) 640
Answer:

648. The year is 2012. Dylan is the oldest and will turn 25 in the year of 2015. John is half the age of Dylan, and Mike is four years older than John. How old will John be in 2015?

(a) 20

(b) 14

(c) 18

(d) 15
Answer:

649. Car B is 12 miles behind Car A, both are driving towards the same destination. Car A is driving at a speed of 40 miles/hour. What speed will Car B need to maintain in order to overtake Car A in exactly 40 minutes?

(a) 12

(b) 52

(c) 18

(d) 58
Answer:

650. If 30% of 250 =2X, what is 20% of 4X

(a) 30

(b) 10

(c) 15

(d) 5
Answer:

651.

Aisha sells 3 products: product A; product B and product C. In March, Aisha sold 3,570 units in total. The numbers of units sold for products A, B and C is in the ratio 10:5:2 respectively. How many units of B and C combined were sold by Aisha in march?

(a) 1470 units

(b) 1580 units

(c) 1690 units

(d) 1800 units
Answer:

652.

The distance between City A and City B is 178km. Ricardo's car has a fuel economy of 35 miles to the gallon. If a litre of petrol costs £1.32, how much money would Ricardo spend on petrol traveling from City A to City B? (1 mile = 1.609344 kilometres; 1 gallon = 4.54609 litres)

(a) 16.78

(b) 18.96

(c) 20.10

(d) 22.93
Answer:

653.

An employee at a call centre has recently undergone advanced telesales training. It was calculated that after the training, the employee has increased their sales performance by 5% and was now generating on average £1,050 in revenue per week. The advanced telesales training cost £3,000, how long would it take the employee to generate enough additional revenue to meet the costs of the training course, based on the employees sales performance increase?

(a) 50 weeks

(b) 55 weeks

(c) 60 weeks

(d) 65 weeks
Answer:

654.

A river has an average rate of water flow of 59.6 m³/s. This river has three tributaries, tributary A, B and C, which account for 36%, 47% and 17% of water flow respectively. How much water is discharged in 30 minutes from tributary B?

(a) 40,190.7 m

(b) 42,837.9 m

(c) 45,383.8 m

(d) 50,421.6 m
Answer:

655.

¼ of all staff at Casper and John Partners Ltd are eligible for a fully funded company car. However ½ of eligible employees have opted out of the company car scheme and ⅛ of opted out eligible employees have stated their reasons for doing so are due to environmental concerns. What fraction of employees at Casper and John Partners Ltd opted out of the company car scheme due to environmental concerns?

(a) 1/61

(b) 1/64

(c) 1/67

(d) 1/69
Answer:

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656.

In February a website received 62.42% of its traffic from search engines, 16.87% of its traffic from referrals from other websites and 20.71% of its traffic from direct visits. February's referral traffic generated by Facebook provided 865 visits, the student room provided 632 visits and the remaining traffic from other websites provided 235 visits. How much traffic did the website receive during February in total?

(a) 6,896 visits

(b) 7,589 visits

(c) 8,758 visits

(d) 10,267 visits
Answer:

657.

An oil and gas field generates 5000 barrels of crude oil, and 17,000 cubic metres of natural gas per day. The current price per barrel of crude oil is $91.87 and the price per 1000 cubic metres of natural gas $131.10. The profit margins per barrel of oil and per 1000 cubic metre of natural gas are 31% and 27% respectively. How much profit is generated by this oil and gas field in 7 weeks? (Assume the price of oil and gas remains constant)

(a) $7,007,012

(b) $7,160,045

(c) $7,282,185

(d) $7,387,896

658. How many 4-letter words with or without meaning, can be formed out of the letters of the word, 'LOGARITHMS', if repetition of letters is not allowed?

(a) 40

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(b) 400

(c) 5040

(d) 2520
Answer:

659. A man buys a watch for Rs.1950 in cash and sells it for Rs.2200 at a credit of 1 year. If the rate of interests is 10% per annum, the man

(a) gain Rs.55

(b) gain Rs.30

(c) loses Rs.30

(d) gains Rs.50
Answer:

660. Sakshi can do a piece of work in 20 days. Tanya is 25% more efficient than Sakshi. The number of days taken by tanya to do the same piece of work is

(a) 15

(b) 16

(c) 18

(d) 25
Answer:

661. Sound is said to travel in air at about 1100 feet per second. A man hears the axe striking the tree, 11/5 seconds after he sees it strike the tree. How far is the man from the wood chopper?

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(a) 2197 ft

(b) 2420 ft

(c) 2500 ft

(d) 2629 ft
Answer:

662. A invested some money in 10% stock at 96. If B wants to invest in an equality good 12% stock, he must purchase a stock worth of

(a) Rs. 50

(b) Rs. 50.20

(c) Rs. 115.20

(d) Rs. 125.40
Answer:

663. N number of persons decided to raise Rs. 3 lakhs by equal contribution from each. Had they contributed Rs. 50 each extra, the contribution would have been Rs. 3.25 lakhs. How many persons are there?

(a) 400

(b) 500

(c) 550

(d) 600
Answer:

664. The price of a T.V set worth Rs. 20,000 is to be paid in 20 instalments of Rs. 1000 each. If the rate of interest be 6% per annum, and the first installments be

paid at the time of purchase, then the value of the last installments covering the interest as well will be

(a) 1050

(b) 2050

(c) 3000

(d) 19000

Answer:

665. A cube of edge 5 cm is cut into cubes of each edge 1 cm. The ratio of the total surface area of one of the small cubes to that of the large cube is equal to

(a) 1 : 5

(b) 1 : 25

(c) 1 : 125

(d) 1 : 625

Answer:

666. A person takes a loan of Rs. 200 at 5% simple interest. He returns Rs. 100 at the end of 1 year. In order to clear his dues at the end of 2 years, he would pay

(a) Rs. 105

(b) Rs. 110

(c) Rs. 115

(d) Rs. 115.50

Answer:

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667.

A = 10
B = 0
C = 5
D = 3
E = 15

$$\frac{E}{C} + AB + AD - (BC)^E = ?$$

(a) 13

(b) 33

(c) 35

(d) 28
Answer:

668. Flight 945 passed over Paris at 04:45 and later over Amsterdam at 06:15. The distance between Paris and Amsterdam is 450 miles, what was the average speed of the aircraft?

(a) 300mph

(b) 450mph

(c) 675mph

(d) 525mph
Answer:

669. In the town of Idaville there are three major electronic stores. Last year MegaElectronics sold one and a half times as many televisions at Funtech. Funtech sold one-fifth more televisions than ElectroMall. ElectroMall sold 600 televisions last year. How many televisions did MegaElectronics sell last year?

(a) 1080

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(b) 1440

(c) 1260

(d) 1320
Answer:

670. Three friends split an amount of money. Julie gets 268 dollars, Michael gets 200 dollars and Lily gets 40 percent. What is the amount?

(a) 820 dollars

(b) 720 dollars

(c) 760 dollars

(d) 780 dollars
Answer:

671. A survey was conducted by the Department of Home Safety. 4/16 of the survey takers answered they had a grade 4 or higher security system installed at their home. 3/9 answered they had a grade 3 or lower home security system. 125 answered they had no home security system, which was the remaining option. How many answered they had a grade 4 or higher security system?

(a) 125

(b) 150

(c) 75

(d) 100
Answer:

672. 3 pumps working 6 hours a day, can empty a water tank in 2 days. How many hours a day must 9 pumps work to empty the same tank in 1 day?

(a) 8

(b) 2

(c) 12

(d) 4
Answer:

673.

A shed has a side wall with the dimensions shown above. Calculate the area of the wall in square feet.
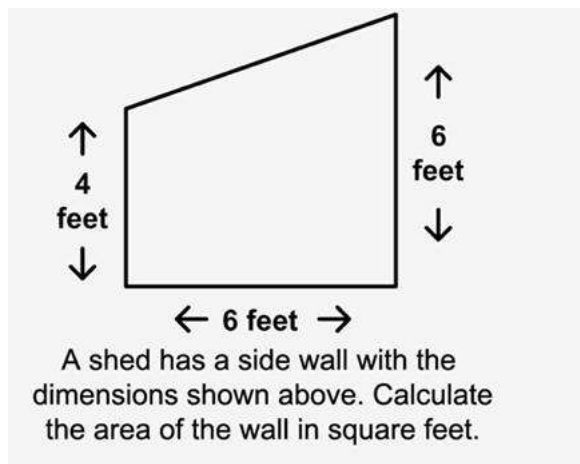
(a) 30

(b) 33

(c) 36

(d) 27
Answer:

674.

A companywide staff satisfaction survey revealed that 60% of staff provided negative responses on one or more question items on the survey. Of this 60% of staff, ½ stated low opportunities for advancement, ¼ stated that payment and benefits were unsatisfactory and ⅜ stated that problems with their line manager were common. There are 3,461 members of staff at the company and the survey had an 86% response rate. How many members of staff stated that problems with their line manager were common?

(a) 660 members of staff

(b) 670 members of staff

(c) 680 members of staff

(d) 690 members of staff

Answer:

675.

Gareth's house hold budget per week is £250. ½ of this budget is spent on rent, 12.5% is spent on bills and 27.5% is spent on food. Every month, ¾ of the budget not accounted for by rent, food and bills is placed in a savings account. How long would it take Gareth to save up £900 from his left over house hold budget?

(a) 42 weeks

(b) 44 weeks

(c) 46 weeks

(d) 48 weeks

Answer:

676.

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An investor purchased 25 ounces of gold in 2007 for a total of £16,225. When the investor sold the metal in 2012, the price of gold per gram was £50.74. The profits gained from this transaction were used to buy silver at the market price of £27.57 per ounce. What is the largest amount of silver that the investor could purchase using profits generated from selling their gold? (1 gram = 0.035274 ounces).

(a) 512 ounces of silver

(b) 596 ounces of silver

(c) 678 ounces of silver

(d) 716 ounces of silver

Answer:

677.

Architectural Bronze is an alloy, typically composed of 57% copper, 3% lead and 40% zinc. The current price of copper is £3,670 per metric ton and the current price of zinc is £1,240 per metric ton. If a foundry has 1275 tons of lead, how much would it cost to purchase enough copper and zinc to produce the maximum amount of architectural bronze possible with the existing amount of lead?

(a) 86,282,920 Pounds

(b) 92,282,170 Pounds

(c) 101,272,280 Pounds

(d) 109,985,750 Pounds

Answer:

678.

The wild population of Snow Leopards was recorded at 6,590 in 2003. At the time 34% of wild Snow Leopards resided in China, 23% resided in Mongolia and 12.5% resided in India, with the remaining population residing in other Asian countries. By 2012, wild snow Leopard populations had grown by 16% in China, 3.5% in Mongolia, decreased by 2.9% in India and remained unchanged in other Asian countries. In 2012 an additional 600 Snow Leopards reside in Zoos, what was the total Snow Leopard population in 2012?

(a) 7,578 Snow Leopards

(b) 7,754 Snow Leopards

(c) 7,956 Snow Leopards

(d) 8,145 Snow Leopards

Answer:

679.

Claire provides freelance consulting services at £30 per hour, with a 1 hour unpaid lunch break and paid overtime at 1.5 times the usual hourly rate. Her latest contract requires to her to work from 8.30am till 5.45pm, for 15 billable days, with an extra 1 and a half hours overtime per day. Assuming Claire pays 30% in taxes on her income, how much will Claire earn from her latest contract after tax?

(a) 2,568.75 Pounds

(b) 2,863.50 Pounds

(c) 3,010.00 Pounds

(d) 3,307.50 Pounds

Answer:

680.

An organization spends 5.5% of its annual training and development budget on evaluating the effectiveness of training programs. 65% of the money spent on evaluation is used to evaluate employee's immediate reaction to the training, using reaction sheets. ¾ of the money spent on capturing reactions to training programs is spent on analyzing and benchmarking the data collected. If the organizations training and development budget is £2.7 million per year, how much is spent analyzing reaction data per month an average?

(a) 5,583.32 Pounds

(b) 5,736.93 Pounds

(c) 6,032.81 Pounds

(d) 6,258.38 Pounds
Answer:

681.

Daniel holds 170 shares of Company A, 80 shares of Company B and 110 shares of Company C. At the time of purchase, company A shares were valued at £2.82 per share, company B shares were valued at £1.92 per share and company C shares were valued at £2.78 per share. When Daniel sold his shares, company A and B shares had risen in value by 5% and 6% respectively, and the value of company C shares had dropped by 2%, how much profit did Daniel generate from selling his shares?

(a) 24.89 Pounds

(b) 27.07 Pounds

(c) 29.64 Pounds

(d) 32.45 Pounds
Answer:

682.

An organization is refurnishing its offices by providing employees with new chairs, desks and filing cabinets. Each office requires 18 desks, 18 chairs and 36 filing cabinets. The furniture supplier provides desks at £145.95 per desk, chairs at £45.95 per chair and filing cabinets £39.95 per cabinet. The organization has 7 offices which require refurnishing. What will be the total cost of the new office furniture?

(a) 32,198.70 Pounds

(b) 34,246.80 Pounds

(c) 36,829.80 Pounds

(d) 38,298.90 Pounds
Answer:

683.

A storage container has 1100 cubic feet of storage space. This storage contain is used to hold identically sized boxes with the following dimensions: width = 2ft, length = 4ft, height = 2ft. what is the maximum number of these boxes which could be held in this storage container?

(a) 67 boxes

(b) 68 boxes

(c) 69 boxes

(d) 70 boxes
Answer:

684. In how many ways a committee, consisting of 5 men and 6 women can be formed from 8 men and 10 women?

(a) 266

(b) 5040

(c) 11760

(d) 86400
Answer:

685. Rs. 20 is the true discount on Rs. 260 due after a certain time. What will be the true discount on the same sum due after half of the former time, the rate of interest being the same?

(a) Rs. 10

(b) Rs. 10.40

(c) Rs. 15.20

(d) Rs. 13
Answer:

686. Kim can do a work in 3 days while David can do the same work in 2 days. Both of them finish the work together and get Rs.150. What is the share of Kim?

(a) Rs.30

(b) Rs.60

(c) Rs.70

(d) Rs.75
Answer:

687. The speed of a car increases by 2 kms after every one hour. If the distance travelling in the first one hour was 35 kms. what was the total distance travelled in 12 hours?

(a) 456 kms

(b) 482 kms

(c) 552 kms

(d) 556 kms
Answer:

688. A man buys Rs. 50 shares in a company which pays 10% dividend. If the man gets 12.5% on his investments, at what price did he buy the shares?

(a) Rs. 37.50

(b) Rs. 40

(c) Rs. 48

(d) Rs. 52
Answer:

689. In a classroom, if 6 students per bench are assigned to accommodate all students, one more bench will be required. However, if 7 students are accommodate per bench, there would be a space left for 5 students.What is the number of students in the class ?

(a) 30

(b) 45

(c) 42

(d) 72
Answer:

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690. A lent Rs. 5000 to B for 2 years and Rs. 3000 to C for 4 years on simple interest at the same rate of interest and received Rs. 2200 in all from both of them as interest. The rate of interest per annum is

(a) 5%

(b) 7%

(c) 8%

(d) 10%
Answer:

691. The cost of painting the whole surface area of a cube at the rate of 13 paise per Sq.cm is Rs. 343.98. Then the volume of the cube is

(a) 8500 cm^3

(b) 9000 cm^3

(c) 9250 cm^3

(d) 9261 cm^3
Answer:

692. At what rate percent per annum will the simple interest on a sum of money be 2/5 of the amount in 10 years?

(a) 2%

(b) 4%

(c) 6%

(d) 11%
Answer:

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693. Marie walks 100 meters south, then 120 meters west, and 20 meters south again. She then walks 40 meters east before walking 60 meters north again. How far from her starting position is she now?

(a) 80

(b) 120
(c) 140

(d) 100
Answer:

694. Successive discounts of 20% and 15% are equal to a single discount of what percentage?

(a) 28%

(b) 35%

(c) 32%

(d) 30%
Answer:

695.

> Jennifer runs a sightseeing business. Over a period of one year she averages 12 customers per week. Every customer pays $250 for one sightseeing flight. Her expenses are laid out below:
> Fuel: $50 per flight/customer
> Aircraft maintenance: $750/week
> Advertising: $500/month
> Insurance: $1000/month
> Other expenses: $150/week
> How much is her yearly income in dollars after expenses?

(a) 60,000

(b) 58,000

(c) 59,500

(d) 62,500
Answer:

696.

A pizza place has a special combo deal: one pizza, one medium Coke and a dessert for $7.99. Bought separately the prices are: pizza $4.98, medium Coke $2.99 and dessert $2.25. How much can be saved when buying the combo?

(a) $2.42

(b) $2.98

(c) $1.98

(d) $2.23
Answer:

697.

Jane is looking for her lost wallet.
She starts by facing west. She then walks 7 yards and turns 90 degrees clockwise. She walks another 7 yards and then turns 45 degrees counterclockwise. She walks 15 yards, reverses her direction, and walks 5 yards back. She turns 135 degrees clockwise and walks another 20 yards.
In which direction is she now facing?

(a) South West

(b) South

(c) South East

(d) West
Answer:

698.

A publicly owned company has made the decision to return to private ownership after a management buyout. ½ of the company has been purchased by private equity company A, ¼ has been purchased by private equity company B and the remaining quarter has been purchased by the companies own employees. Of this quarter owned by employees, ⅔ is owned by the company's upper management. Of the fraction owned by the upper management, ¾ was financed by loans and re-mortgages. What fraction of the company was purchased by the upper management through loans and re-mortgages?

(a) 1/7

(b) 1/8

(c) 1/9

(d) 1/10
Answer:

699.

Jamal has purchased a new car for £17,000. He has opted to purchase his car in monthly installments of 3% of the cars total value per month. Similarly, he is being charged £59 per month in car insurance, £50 a year in breakdown cover, £195 a year in road tax and an estimated £1,965 per year in running costs. How much will Jamal's car cost him per month on average? (while he is still paying installments for the car)

(a) 679.98 pounds

(b) 705.98 pounds

(c) 725.88 pounds

(d) 753.17 pounds
Answer:

700.

> Fresh water accounts for 2.5% of all water on earth. Of this freshwater, 0.03% exists as surface water. Of this fresh surface water, 87% is found in lakes, 11% in swamps and 2% in rivers. If the total volume of water on earth is 1.386 billion km³, what is the total volume of water found in lakes?

(a) 80,3738 km3

(b) 85,8383 km3

(c) 90,4365 km3

(d) 95,3731 km3
Answer:

701.

> Algae biofuel can be obtained from microalgae. Algae have a dry weight of 5% of the algae's total weight, and a lipid content of 40% of that dry weight, which has similar properties to vegetable oil. Algal oil can be sold for £0.42 per litre. How much revenue could be generated by the sale of algal oil from 17 metric tons of microalgae? (1 litre of algal oil weighs 0.92kg)

(a) 150.58 Pounds

(b) 155.22 Pounds

(c) 160.58 Pounds

(d) 165.48 Pounds
Answer:

702.

The mountain summits of K2, Kanchenjunga, Lhostse, macula and Cho Oyu have respective heights of 8,611m, 8586m, 8,516m, 8,486m and 8,188m. The line parent to these mountains is Mount Everest, which is 4.324% taller than the mean heights of these 5 mountains. What is the height of mount Everest?

(a) 8,583m

(b) 8,629m

(c) 8,718m

(d) 8,848m
Answer:

703.

An international train service travels from country A to country B at an average speed of 66 miles per hour without stopping. The distance between the train stations in country A and country B is 430km, how long would it take to reach city B from city A via train? (1 mile = 1.609344 km).

(a) 2 hours

(b) 3 hours

(c) 4 hours

(d) 5 hours
Answer:

704.

A dam generates a total of 1TWh (1,000 GWh or 1,000,000 MWh) of power per year (non-leap year). This dam has 12 turbines which generate an equal amount of power. How much power is generated per turbine each day on average?

(a) 188.2836446 MWh

(b) 192.3837929 MWh

(c) 204.2866738 MWh

(d) 228.3105023 MWh
Answer:

705.

A commodities broker charges a fee of 2% of the total value per transaction each time a commodity is sold. The broker's client purchased 25 ounces of platinum at the market price of £951.82 per ounce. After 4 months the client decides to sell the metal at the current market price of £1,217.28 per ounce. How much profit will be client receive from this transaction?

(a) 5,259.38 Pounds

(b) 5,529.92 Pounds

(c) 5,753.39 Pounds

(d) 6,027.86 Pounds
Answer:

706.

A pharmaceutical company generates 15 metric tons of paracetamol per month, 4.5 metric tons of Ibuprofen per week and 160 metric tons of aspirin per year. The pharmaceutical company can sell paracetamol for £5 per kilo, ibuprofen for £17 per kilo and aspirin for £9 per kilo. How much revenue is generated in 1 year by this pharmaceutical company's sale of paracetamol, ibuprofen and aspirin?

(a) 5,672,000 Pounds

(b) 5,829,000 Pounds

(c) 6,029,000 Pounds

(d) 6,318,000 Pounds

Answer:

707.

Before commercial whaling in the 18ᵗʰ century, the sperm whale population was estimated at 1,100,000. However by 1880 the total sperm whale population had decreased by 29%. Between 1880 and 1946 the population recovered slightly, growing by 5.9% from the 1880 population. However, from 1946 to 1980 only 33% of the 1946 population remained. What was the size of the sperm whale population in 1980?

(a) 272,936

(b) 282,272

(c) 292,372

(d) 302,381

Answer:

708. In how many ways can the letters of the word 'LEADER' be arranged?

(a) 72

(b) 144

(c) 360

(d) 720

Answer:

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709. A trader owns a merchant Rs.10,028 due 1`year hence. The trader wants to settle the account after 3 months. If the rate of interest is 12% per annum, how much cash should he pay?

(a) Rs.9025.20

(b) Rs.9200

(c) Rs.9600

(d) Rs.9560
Answer:

710. 5 men and 2 boys working together can do four times as much work as a man and a boy. Working capacities of a woman and a boy are in the ratio

(a) 1 : 2

(b) 1 : 4

(c) 2 : 1

(d) 3 : 1
Answer:

711. A train travels at an average of 50 miles per hour for 2x1/2 hours and then travels at a speed of 70 miles per hour for 1x1/2 hours. How far did the train travels in the entire 4 hours?

(a) 120 miles

(b) 150 miles

(c) 200 miles

(d) 230 miles

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Answer:

712. A 6% stock yields 8%. The market value of the stock is

(a) Rs. 48

(b) Rs. 75

(c) Rs. 96

(d) Rs. 133.33
Answer:

713. On a sports day, if 30 children were made to stand in a column, then 16 columns could be formed. If 24 children were to stand in a column, then how many columns could be formed?

(a) 20

(b) 22

(c) 29

(d) 452
Answer:

714. A money lender finds that dues to a fall in the annual rate of interest from 8% to 7x3/4%, his yearly income diminishes by Rs. 61.50. His capital is

(a) Rs. 22,400

(b) Rs. 23,800

(c) Rs. 24,600

(d) Rs. 26,000

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Answer:

715. The simple interest on Rs. 1820 from march 9, 2003 to may 21, 2003 at 7x1/2% rate will be

(a) Rs. 22.50

(b) Rs. 27.30

(c) Rs. 28.80

(d) Rs. 29
Answer:

716. A shop offers customers a 20 percent discount on all items that cost 15 dollars or more. A customer buys 3 items with the following prices: $7, $17 and $10. What will the total price for those 3 items be?

(a) $29.90
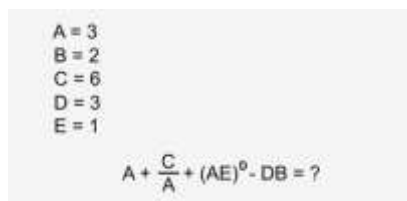
(b) $32.50

(c) $30.60

(d) $28.40
Answer:

717.

$A = 3$
$B = 2$
$C = 6$
$D = 3$
$E = 1$

$$A + \frac{C}{A} + (AE)^0 - DB = ?$$

(a) 26

(b) 19

(c) 8

(d) 14
Answer:

718. The distance from point A to point B is 5 miles. The distance from point B to C is 8 miles. Which of the following options can NOT be the distance in miles from point A to C?
(a) 13

(b) 12

(c) 4

(d) 2
Answer:

719.

¾ of an organisation's staff have recently been provided with a smart phone. By purchasing these phones in bulk, the organisation has saved 17% of the costs per phone. The organisation has 3500 members of staff and the each phone originally cost £125 per unit. How much did the organisation spend on providing employees with these phones?

(a) 254,483.50 Pounds

(b) 263,383.00 Pounds

(c) 272,343.75 Pounds

(d) 283,389.00 Pounds
Answer:

720.

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Calcium carbonate used in industry is extracted direct via mining or quarrying. A mining operation can produce 50 metric tons of magnesium carbonate per day. The market price for pure elemental magnesium is $2.90 per kilogram. If all of the daily production of magnesium carbonate is converted into elemental magnesium, how much revenue per year (non-leap year) could the mine generate from the sale of that magnesium? (Assume magnesium carbonate is 25% elemental magnesium)

(a) $ 13,002,500

(b) $ 13,107,000

(c) $ 13,231,250

(d) $ 13,378,750

Answer:

721.

As a rule of thumb, a household of two people are able to borrow 2.5 times their joint yearly income before tax when applying for a mortgage. A couple have monthly incomes of £2,500 per month and £2,000 before tax, and between them they have saved £15,000. What is the largest amount of money the couple could borrow with a mortgage requiring a 10% deposit based on the rule of thumb?

(a) 135,000 Pounds

(b) 140,000 Pounds

(c) 145,000 Pounds

(d) 150,000 Pounds

Answer:

722.

An investor purchases $350 worth of shares in company A, $450 worth of shares in company B and $750 worth of shares in company C. These shares have the following annual dividend yields: Company A = 5.7%, Company B = 6.2% Company C = 4.9%. The average dividend yield for the Dow Jones Average Index (DJIA) is 2.8%. How much larger will the annual dividend income from the purchased shares be compared to an equally sized investment in the DJIA as a whole? (assume that dividends are not reinvested)

(a) $35.90

(b) $38.80

(c) $41.20

(d) $44.10

Answer:

723.

A management consultancy generated 46% of its revenue through strategy consulting, of which company A is the consultancy's biggest client in terms of fees, accounting for ¼ of the consultancy's strategy revenue. The consultancy currently has 35 strategy consultants working with company A, each charging an effective day rate of £2,000 per working day. What is the total daily revenue generated by the consultancy?

(a) 608,695.65 Pounds

(b) 612,625.30 Pounds

(c) 616,382.75 Pounds

(d) 620,382.80 Pounds

Answer:

724.

Quantitative Aptitude EBook

Francis has £8,200 in a high interest individual savings account (ISA), which provides 0.3% interest per month, which remains in his ISA. He also holds £5,500 in fixed rate bonds, which pays monthly interest directly into Francis's current account at an annual rate of 3.5%. Finally, Francis owns £3,670 worth of shares, which have an average annual dividend yield of 2.8%, also paid directly into his current account monthly. Assuming that Francis's current account does not generate interest, and that all investments were made at the same time, how much income would Francis make in the first 3 months of his investments?

(a) 119.28 Pounds

(b) 126.39 Pounds

(c) 133.27 Pounds

(d) 147.85 Pounds
Answer:

725.

A local utilities company exclusively provides electricity and natural gas to a small village containing 342 households. Each household purchases on average £75 of gas and electricity per month. If the village's natural gas sales account for ¾ of the utilities company's revenue, how much revenue is generated in one year from electricity sales in the village? (assume the company has no customers outside the village)

(a) 73,750 Pounds

(b) 74,500 Pounds

(c) 76,950 Pounds

(d) 78,150 Pounds
Answer:

726.

A commercial property contains 750 square feet of flooring space. A real estate agency has the property on sale at the asking price of £465 per square foot, along with a commission of 3.5% of the properties value. If a customer makes on offer on the property of £300,000 (which includes the commission), how much cheaper per square foot is this offer compared to the asking price? (not including the commission)

(a) 78.53 Pounds

(b) 80.49 Pounds

(c) 82.45 Pounds

(d) 84.93 Pounds

Answer:

727.

The Interest rate for a savings account is 3% per annum, paid in four quarterly payments. If a customer has £20,000 and they do not make any deposits or withdrawals, what will be the total value of the savings account after the first three quarterly interest payments?

(a) 20,447.53 Pounds

(b) 20,450.00 Pounds

(c) 20,453.39 Pounds

(d) 20,455.21 Pounds

Answer:

728.

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¼ of interns will be offered a full time position at our company. Of those interns selected, ½ will be transferred to the consulting function. Of those interns transferred to consulting, they will be split equally between the company's strategy, risk, marketing, finance, organization and operations departments. With an internship cohort of 425 at the start, how many interns will hold full time consulting positions in the strategy function?

(a) 9

(b) 10

(c) 11

(d) 12
Answer:

729. How many words can be formed by using all letters of the word 'BIHAR'?

(a) 60

(b) 120

(c) 150

(d) 180
Answer:

730. The true discount on Rs.2562 due 4 months hence is Rs.122. The rate percent is

(a) 12 %

(b) 13 %

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(c) 14 %

(d) 15 %
Answer:

731. 5 men and 2 boys working together can do four times as much work as a man and a boy. Working capacities of a woman and a boy are in the ratio

(a) 1 : 2

(b) 1 : 3

(c) 2 : 1

(d) 3 : 1
Answer:

732. An aeroplane covers a certain distance at a speed of 240 kmph in 5 hours. To cover the same distance in 1x2/3 hours, it must travel at a speed of

(a) 300 kmph

(b) 360 kmph

(c) 600 kmph

(d) 720 kmph
Answer:

733. A man invests some money partly in 9% stock at 96 and partly in 12% stock at 120. To obtain equal dividends from both he must invest the money in the ratio

(a) 3 : 4

(b) 3 : 5

(c) 4 : 5

(d) 16 : 25
Answer:

734. An iron cubes of side 10 cm is hammered into a rectangular sheet of thickness 0.5 cm. If the sides of the sheet are in the ratio 1 : 5 the sides are

(a) 10 cm, 50 cm

(b) 20 cm, 100 cm

(c) 40 cm, 200 cm

(d) 50 cm, 200 cm
Answer:

735. At what percent per annum will a sum of money double in 16 years?

(a) 6x1/4%

(b) 5x3/2%

(c) 7x2/3%

(d) 8x1/3%
Answer:

736. Peter is buying groceries. In his cart he has:
7 liters of milk at $0.80 per liter
6 kg of flour at $1.20 per 2 kg bag
1.25 kg of butter at $0.85 for every 250g

Peter received a discount of 50% on all milk that he bought. How many dollars did Peter spend?

(a) 10.65

(b) 11.65

(c) 9.25

(d) 12.25
Answer:

737. Michael has baked 6 cakes for a bakesale. She cuts each cake in 8 pieces. After the bake sale is over 2 cakes each have 1 piece, 1 cake has 3 pieces and 3 cakes each have 2 pieces. How many cake has she sold?

(a) 37

(b) 36

(c) 35

(d) 34
Answer:

738. Alice and Adam each need a specific book for school. The book store is having a special offer. 1 book for every 43 dollars, buy two and save 25 percent on the second book. Alice and Adam decide to buy the books together. How much will they each pay if they decide to split the expenses equally>

(a) $37.60

(b) $34.60

(c) $32.40

(d) $38.30
Answer:

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739. A father is 30 years older than his son. However, he will be three times as old as his son after 5 years. What is the present age of his son?

(a) 10

(b) 15

(c) 8

(d) 12
Answer:

740. Anthony bought a house. The price of the house was 1.8 million dollars, but he only had 850,000 dollars. His mother gave him 6 percent of the remaining amount. How much did he have to borrow from the bank in order to buy the house?

(a) $842,000

(b) $893,000

(c) $833,000

(d) $902,000
Answer:

741. The distance from point A to B is 17 miles. The distance from point B to C is 9.5 miles. Which of the following options can NOT be the distance in miles from point A to C?

(a) 26

(b) 7

(c) 25.5

(d) 8.5
Answer:

742. Five friends bought a gift for a mutual friend. The cost of the gift was 126 dollars. Dylan gave 24 dollars, Michaels 32 dollars, Susan gave 27 percent, Luke gave 19 dollars and Maya chipped in the rest. How much would Maya's contribution be?

(a) $19

(b) $21

(c) $23

(d) $17
Answer:

743. Adam has a coupon for 20% off all vegetables, fruits and berries. He buys the following: 1 bag of carrots ar $1.40, ham at $2.50, strawberries ar $2.60, eggs at $1.75 and a banana at $ $1.00. What will he pay for these groceries?

(a) $9.40

(b) $9.25

(c) $8.25

(d) $7.40
Answer:

744. Cecilia gets a new job as a sales woman in a shop. The boss wants her to decied between weekly salary of 350 dollars or working for a 40 percent commission. How much would she have to sell before it would be advantageous

to choose percent commission?

(a) $876

(b) $980

(c) $922

(d) $850
Answer:

745. Michael is 52 years old today, making him 25 years older than Brian. Peter was 5 years younger than Brian and years older than Jane five years ago. How old will Jane be five years from now?

(a) 22

(b) 17

(c) 7

(d) 12
Answer:

746. If 30% of 250 = 2X, what is 20% of 4X?

(a) 5

(b) 30

(c) 15

(d) 10
Answer:

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747. It costs a toy factory X dollars per teddy bear to make the first 500 teddy bears. All subsequent teddy bears cost X - 2 each. When X = $2.50, how much will it cost to manufacture, 2,500 teddy bears?

(a) $6,250

(b) $2,250

(c) $10,250

(d) $4,550
Answer:

748. In how many ways can a group of 5 men and 2 women be made out of a total of 7 men and 3 women?

(a) 63

(b) 90

(c) 126

(d) 45
Answer:

749. The present worth of Rs. 2310 due 2 1/2 years hence, the rate of interest being 15% per annum, is

(a) Rs.1680

(b) Rs.1750

(c) Rs.1840

(d) Rs.1443.75

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Answer:

750. A man can do a job in 15 days. His father takes 20 days and his son finishes it in 25 days. How long will they take to complete the job if they all work together?

(a) Less than 6 days

(b) exactly 6 days

(c) appro. 6.4 days

(d) more than 10 days
Answer:

751. A truck covers a distance of 550 metres in 1 minute whereas a bus covers a distance of 33 kms in 45 minutes. The ratio of their speed is

(a) 3 : 4

(b) 4 : 3

(c) 3 : 5

(d) 50 : 3
Answer:

752. How many shares of market value Rs. 25 each can be purchased for Rs. 12750 brokerage being 2%?

(a) 450

(b) 500

(c) 550

(d) 600

Answer:

753. A boat having a length 3 m and breadth 2 m is floating on a lake. The boat sinks by 1 cm when a man gets on it. The mass of man is

(a) 12 kg

(b) 60 kg

(c) 72 kg

(d) 96 kg
Answer:

754. Reena took a loan of Rs. 1200 with simple interest for as many years as the rate of interest. If she paid Rs. 432 as interest at the end of the loan period, what was the rate of interest?

(a) 3.6

(b) 5.6

(c) 6

(d) 18
Answer:

755.
A commercial bull calf is expected to put on 35 kg of weight per month from birth until the age of nine months. If 13 bull calves are recently bred (all the same age), with an average birth weight of 40 kg, what will be the expected weight of this group 5 months after birth?

(a) 2,575 kg

(b) 2,795 kg

(c) 2,925 kg

(d) 3,105 kg
Answer:

756.

A clothing manufacturer is able to produce 1.8 metric tons (1 metric ton = 1,000kg) of clothing per day, which is sold at a 25% profit margin. How much profit is generated by the clothing manufacturer in 34 weeks if clothing is sold at £5,500 per ton?

(a) 549,050

(b) 559,050

(c) 569,050

(d) 589,050
Answer:

757.

A box of antibiotics contains 4 packs of pills. Each pack of pills contains 24 individual antibiotic pills, with each pill containing 12mg of the antibiotic. Patients proscribed the antibiotic are required to take four 36mg servings per day for 14 days. How many packs of antibiotics would patients require for the 14 day course?

(a) 2 boxes

(b) 3 boxes

(c) 4 boxes

(d) 5 boxes

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Answer:

758.

A large shop bought sandwich box contains two sandwiches, each containing 275 kcals (calories) per sandwich. If a customer eats one whole sandwich and ¾ of the other, then throws the rest away, how many kilojoules of energy have they consumed? (1kcal = 4.184 kilojoules of energy).

(a) 1,785.31 kilojules

(b) 1,867.52 kilojules

(c) 1,968.47 kilojules

(d) 2,013.55 kilojules

Answer:

759.

Between January and July, the average temperature raises from 5°C to 23°C. What does this temperature change correspond to in Fahrenheit? Note that:
Fahrenheit temperature = [(Celsius temperature x 1.8) + 32]

(a) 26.9°F

(b) 30.5°F

(c) 32.4°F

(d) 38.2°F

Answer:

760.

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A total of 1600 magazines were sold. 70% were sold at a 50% discount, 20% were sold at a 33.3% discount, the remaining magazines were sold at the full price of $14.95. What was the approximate revenue in dollars?

(a) 14,125

(b) 13,900

(c) 13,950

(d) 14,025
Answer:

761. Violet buys 7 apples and gives lucy three and then she gives Luke half of what is left. How many apples does Luke get?

(a) 4

(b) 3

(c) 1

(d) 2
Answer:

762.

One troy ounce of gold is currently valued at £926.17. An investor purchased 6 troy ounces of gold at the previous market price of £827.29. If the investor sells this gold at the current market price, at what profit margin would the metal be sold? (profit margin = [(profit / revenue) x 100])

(a) 6.58%

(b) 7.24%

(c) 8.62%

(d) 10.68%
Answer:

763.

A telephone landline contract stipulates that calls between the hours of 6am-6pm during weekdays costs 7.5p (£0.075) per minute, with all calls outside these hours costing 1.5p (0.015) per minute. If during a week, a customer makes 2 hours' worth of phone calls during the week between 6am-6pm and 30 minutes worth of calls at the weekend, what would their weekly phone bill be?

(a) 9.15

(b) 9.45

(c) 9.75

(d) 9.95
Answer:

764.

1 barrel of crude oil can produce an average of 40% petroleum. Each barrel contains 159 liters of crude oil. On average, how many litres of hydrocarbons can be produced from 15 barrels of crude oil?

(a) 886 litres

(b) 915 litres

(c) 938 litres

(d) Cannot say

Answer:

765.

> An Olympic sized swimming pool when full contains 2,500,000 litres of water. To keep the swimming pool disinfected, the pool needs to maintain a chlorine concentration of 0.5ml of chlorine per litre of water. Assuming the swimming pool is emptied and re-chlorinated every day, how much chlorine is needed to disinfect an Olympic sized swimming pool for 5 days? (1 litre = 1000ml)

(a) 5,750 litres

(b) 6,000 litres

(c) 6,250 litres

(d) 6,500 litres
Answer:

766.

> The People's Republic of China is currently the largest exporter of tea, accounting for 30.4% of global tea exports. India is ranked second and Kenya third, accounting for 24.4% and 9.5% of global tea exports respectively. If 4,211,397 tons of tea were produced globally, what percentage of global tea production is accounted for by these three countries?

(a) 2,569,620 tons

(b) 2,469,560 tons

(c) 2,568,970 tons

(d) 2,712,140 tons
Answer:

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767.

Alice needs to bake 16 cakes for a bake sale. Each cake needs 12.5 ounces of flour. At the store they have flour in bags of 50 ounces. How many bags of flour will she have to buy?

(a) 5

(b) 3

(c) 6

(d) 4
Answer:

768.

A business jet is descending toward its destination. The jet left 35,000 feet at 09:20 and passed 17,500 feet at 09:34. he jet maintained a constant rate of descent until passing 17,500 feet, where it increased the rate of descent by a factor of 3. When will the jet reach 2,500 feet?

(a) 09:42

(b) 09:40

(c) 09:36

(d) 09:38
Answer:

769. How many 3-digit numbers can be formed from the digits 2, 3, 5, 6, 7 and 9 which are divisible by 5 and none of the digits is repeated?

(a) 5

(b) 10

(c) 15

(d) 20
Answer:

770. The true discount on Rs. 1760 due after a certain time at 12% per annum is Rs. 160. The time after which it is due is

(a) 6 months

(b) 8 months

(c) 9 months

(d) 10 months
Answer:

771. A tyre has punctures. The first puncture alone would have made the tyre flat in 9 minutes and the second alone would have done it in 6 minutes. If air leaks out at a constant rate, how long does it take both the punctures together to make it flat?

(a) 1x1/2 minutes

(b) 3x1/2 minutes

(c) 3x3/5 minutes

(d) 4x1/4 minutes
Answer:

772. A boy goes to his school from his house at a speed of 3 km.hr and returns at a speed of 2 km/hr. If he takes 5 hours in going and coming, the distance between his house and school is

(a) 5 km

(b) 5.5 km

(c) 6 km

(d) 6.5 km
Answer:

773. A man invested Rs. 4455 in Rs. 10 shares quoted at Rs. 8.25. If the rate of dividend be 12%, his annual income is

(a) Rs. 207.40

(b) Rs. 534.60

(c) Rs. 648

(d) Rs. 655.60
Answer:

774. The heights of a wall is six times its width and the length of the wall is seven times its height. If volume of the wall be 16128 cu .m, its width is

(a) 4

(b) 4.5

(c) 5

(d) 6
Answer:

775.

A sales executive is paid a monthly commission of a quarter of their total monthly sales. Similarly, the sales executive is given a performance related bonus if they reach their sales target (10% of monthly base salary). If the executive's base salary is £2000 per month, with a monthly sales target of £3,000 per month, what would the executive's minimum annual remuneration be if they bill £4000 every month?

(a) 34,200

(b) 35,700

(c) 36,100

(d) 38,400
Answer:

776.

John buys 13 pens, four A4 booklets and 3 packs of coloured pencils. Pens cost £0.99 each, A4 booklets cost £1.99 each and packs of coloured pencils cost £1.49 each. If John uses his loyalty card, which gives him a 7.5% discount, and a £2.50 off voucher, how much will John need to pay? (voucher is applied after the 7.5% discount)

(a) 19.30

(b) 20.90

(c) 21.50

(d) 22.40
Answer:

777.

An office water cooler can store 15 litres of water when completely filled. The average employee consumes 450ml of water per working day from the water cooler. The 15 litre container is replaced once it has run out of water and filled back up to the full 15 litres. If there are 20 employees at the office, how many times on average would the water container be replaced in three weeks?

(a) 9

(b) 10

(c) 11

(d) 12

Answer:

778.

A car with a fuel efficiency of 40 miles per gallon of petrol is traveling to city B from city A. If the distance from city A to city B is 350 miles, and the cost of petrol is £5.90 per gallon, what would the cost of petrol be for this journey?

(a) 51.63

(b) 52.45

(c) 53.95

(d) 54.26

Answer:

779.

A regular cup of tea contains 35 mg of caffeine, a regular cup of instant coffee contains 63 mg of caffeine and the average energy drink contains 80 mg of caffeine. If an individual consumed three cups of tea, two cups of coffee and 1 energy drink per day, by how much does this exceed the weekly recommended allowance of caffeine? (assume that the weekly recommended allowance of caffeine is 1,400mg)

(a) 765 mg

(b) 777 mg

(c) 787 mg

(d) 797 mg
Answer:

780.

Andrea has a coupon that gives her 15 percent off total amounts over 15 dollars. She wants to buy pencils, and they cost $1.26 per pencil. How many will she have to buy in order to make use of her coupon?

(a) 10 or more

(b) 12 or more

(c) 13 or more

(d) 11 or more
Answer:

781.

Alice and Adam each need a specific book for school. The bookstore is having a special offer: 1 book for 43 dollars, buy two and save 25 percent on the second book. Alice and Adam decide to buy the books together. How much will they each pay if they decide to split the expenses equally?

(a) $32.40

(b) $34.60

(c) $38.30

(d) $37.60
Answer:

782. How many words with or without meaning, can be formed by using all the letters of the word, 'DELHI' using all the letters of the word 'DELHI' using each letter exactly once?

(a) 10

(b) 25

(c) 60

(d) 120
Answer:

783. Find the present worth of Rs. 930 due 3 years hence at 8% per annum. Also find the discount?

(a) Rs.500

(b) Rs.625

(c) Rs. 750

(d) Rs. 800
Answer:

784. 10 women can complete a work in 7 days and 10 children take 14 days to complete the work. How many days will 5 women and 10 children take to complete the work?

(a) 1

(b) 3

(c) 5

(d) 7
Answer:

785. A man on tour travels first 160 km at 64 km/hr and the next 160 km at 80 km/hr. The average speed for the first 320 km of the tour is

(a) 35.55 km/hr

(b) 36 km/hr

(c) 71.11 km/hr

(d) 71 km/hr
Answer:

786. A man invested Rs. 1552 in a stock at 97 to obtain an income of Rs. 128. The dividend from the stock is

(a) 7.5 %

(b) 8%

(c) 9.7%

(d) 10%
Answer:

787. How many bricks, each measuring 25 cm x 11.25 cm x 6 cm, will be needed to build a wall of 8 m x 6 m x 22.5 cm?

(a) 5600

(b) 6000

(c) 6400

(d) 7200
Answer:

788. Johhny has fifteen pennies. He gives Bob four pennies. Bob now has three times more pennies as Johhny has left.
How many pennies did Bob have at the beginning?

(a) 26

(b) 29

(c) 33

(d) 31
Answer:

789.

In an email marketing campaign, a company sent out 120,050 emails inviting potential customers to buy their product. Of these 120,050 customers, 24% opened their email, ¼ followed the link in the email and 35% of customers following the link made a purchase. If the advertised product costs £9.99, how much revenue was generated by this email marketing campaign?

(a) 25,184.79

(b) 26,458.21

(c) 27,655.36

(d) 28,658.32

Answer:

790.

A second hand book shop is required to add a 20% value added tax (VAT) to its products by law. However, charity shops are not required to do so. Similarly, second hand book shops purchase used books for resale, whereas charity shops are given used books for free. If a second hand book shop purchases a book for £5 and resells it for £15 (VAT included in the price), how much more profit is generated by selling the same book at a charity shop for the same price?

(a) 5.5

(b) 6.0

(c) 6.5

(d) 7.5

Answer:

791.

Assume that the average MP3 file size is 3.5 megabytes, the average music video file size is 10 megabytes and the average E-book file size is 5.5 megabytes. Aisha has a portable multimedia player with 5 gigabytes of memory (5,000 megabytes). If Aisha has 200 MP3s, 50 music videos and 12 E-books on her portable multimedia player, how much free space does she have left?

(a) 3,647 megabytes

(b) 3,734 megabytes

(c) 3,812 megabytes

(d) 3,949 megabytes
Answer:

792.

A supermarket sells onions for 40p per kg, apples for 60p per kg and potatoes for 50p per kg. How much would it cost to purchase 3kg of onions, 4.5kg of apples and 6kg of potatoes from this supermarket?

(a) 5.80

(b) 6.90

(c) 8.00

(d) 9.10
Answer:

793.

A customer services team handles on average 200 complaints a day. Each complaint previously lasted 5 minutes. After undergoing a team wide training program, the average complaint length has gone down to 3 minutes and 30 seconds. If there are 7 members of the customer services team, how much time per team member has been saved per day due to the training program?

(a) 36 minutes

(b) 40 minutes

(c) 43 minutes

(d) 48 minutes
Answer:

794.

Fiona took a loan of $10,000 at a yearly interest rate of 10%. What is the full amount of the loan, including interest years, presuming that the loan has not been reduced at any time?

(a) $13,310

(b) $12,790

(c) $12,000

(d) $13,000
Answer:

795. In how many different ways can the letters of the word 'RUMOUR' be arranged?

(a) 180

(b) 90

(c) 30

(d) 720
Answer:

796. Find the present worth of Rs. 930 due 3 years hence at 8% per annum?

(a) Rs.500

(b) Rs.625

(c) Rs. 750

(d) Rs. 890
Answer:

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797. A does a work in 10 days and B does the same work in 15 days. In how many days they together will do the same work?

(a) 5 days

(b) 6 days

(c) 8 days

(d) 9 days
Answer:

798. A person has to cover a distance of 6 km in 45 minutes. If he covers one-half of the distance in two-thirds of the total time; to cover the remaining distance in the remaining time, his speed(in Km/hr) must be

(a) 6

(b) 8

(c) 12

(d) 15
Answer:

799. A man invests in a 16% stock at 128. The interest obtained by him is

(a) 8%

(b) 12%

(c) 12.5%

(d) 16%
Answer:

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800. The perimeter of one face a of cube is 20 cm. Its volume must be

(a) 125 cm3

(b) 400 cm3

(c) 1000 cm3

(d) 8000 cm3
Answer:

801. A and B together can complete a piece of work in 4 days. If A alone can complete the same work in 12 days. in how many days can b alone complete that work?

(a) 1/3 days

(b) 1/6 days
(c) 1/9 days

(d) 1/12 days
Answer:

802.

An online retailer receives 150 sales per day, with the average sale amounting to £34. However, after advertising through an affiliate, the retailer has gained an extra 25 sales per day, with the affiliate being given 15% commission on the revenue generated through the affiliate. Assuming that the profit margins on the retailers product is 30% (not including commission fees), how much profit is now generated by the online retailer per day?

(a) 1,746.75

(b) 1,854.25

(c) 1,953.50

(d) 2,014.00

Answer:

803.

A commercial sea fishing ship catches three metric tons of fish per day, with the voyage lasting two weeks at sea. Assuming that 1/4 of all fish caught are suitable for human consumption, how much fish suitable for human consumption could be caught by a 5 ship fleet of fishing ships? (Assume all ships catch the same amount of fish).

(a) 70 tons

(b) 62.5 tons

(c) 65 tons

(d) 52.5 tons

Answer:

804.

Half of the company's employees have a workplace pension. Of this half, 1/3 has contributed to this pension for over 5 years. Employees that have contributed for over 5 years have the option to be paid a lump sum pension payment upon retirement and 20% of eligible employees have elected to receive the optional lump sum. If there are 2,690 employees at this organization, how many employees have elected to take the optional lump sum pension payment?

(a) 90

(b) 95

(c) 100

(d) 105

Answer:

805.

An employee earns £7.29 per hour for their contracted hours. The employee is also paid 1.5 times standard pay when working overtime. Similarly, employees are offered a £30 cash bonus every time they meet or exceed their weekly sales targets. If in one week, an employee works 37.5 contracted hours, 9 hours of overtime and meets their weekly target, how much can the employee expect to be paid?

(a) 401.80

(b) 412.40

(c) 425.70

(d) 436.20
Answer:

806.

A travel agent sells Euros (€) at an exchange rate of 1.12 Euros (€) to the British Pound Sterling (£). However, the official exchange rate is 1.17 Euros to the British pound (£), making a profit on the difference. If a customer exchanges £1,300 for Euros at the travel agent, how much profit does the travel agent gain from this transaction?

(a) 45

(b) 50

(c) 55

(d) 65
Answer:

807.

Jennifer runs a sightseeing business. Over a period of one year she averages 12 customers per week. Every customer pays $250 for one sightseeing flight. Her expenses are laid out below.
Fuel: $50 per flight/customer
Aircraft maintenance: $750/week
Advertising: $500/month
Insurance: $1000/month
Other expenses: $150/week
How much is her yearly income in dollars after expenses?

(a) 60,000

(b) 59,500

(c) 62,500

(d) 58,000
Answer:

808.

Michael owns a gallery in New York. He sells paintings from multiple artists - the best-selling artist is by far Brian. Michael earns a commission of 20% on each of Brain's paintings he sells. After commission Brain earned $240,000 from Michael's sales last year. How much did Michael earn from selling Brian's paintings last year?

(a) $60,000

(b) $48,000

(c) $58,000

(d) $80,000
Answer:

809. In how many ways can the letters of the word 'APPLE' be arranged?

(a) 720

(b) 120

(c) 60

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(d) 180
Answer:

810. A man purchased a cow for Rs. 3000 and sold it the same day for Rs. 3600, allowing the buyer a credit of 2 years. If the rate of interest be 10% per annum, then the man has a gain of

(a) 0%

(b) 5%

(c) 7.5%

(d) 10%
Answer:

811. 10 men and 15 women together can complete a work in 6 days. It takes 100 days for one man alone to complete the same work. How many days will be required for one woman alone to complete the same work?

(a) 90

(b) 145

(c) 150

(d) 225
Answer:

812. A person travels from P to Q at a speed of 40 km/hr and returns by increasing his speed by 50%. What is his average speed for both the trips?

(a) 36 kmph

(b) 45 kmph

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(c) 48 kmph

(d) 50 kmph
Answer:

813. The market value of a 10.5% stock, in which an income of Rs. 756 is derived by investing Rs. 9000, brokerage being 1/4% is

(a) Rs. 108.25

(b) Rs. 112.20

(c) Rs. 124.75

(d) Rs. 125.25
Answer:

814. A rectangular box measures internally 1.6 m long, I m broad and 60 cm deep.The number of cubical blocks each of edge 20 cm that can be packed inside the box is

(a) 30

(b) 53

(c) 60

(d) 120
Answer:

815. A and B together can do a piece of work in 30 days.A having worked for 16 days, B finishes the remaining work in 44 days. In how many days shall B finish the whole work alone?

(a) 30 days

(b) 40 days

(c) 60 days

(d) 70 days
Answer:

816.

Peter had grown 3 inches since they last met. When they last met Brian was 5 inches taller than Peter, back then Brian was 10 inches shorter than his farther who was 80 inches tall.
How tall is Peter today?

(a) 78

(b) 68

(c) 62

(d) 65
Answer:

817.

The Cassava root contains 38 grams of carbohydrates per 100 grams and each individual root has an average weight of 350 grams. If carbohydrates contain 4 calories per gram, how many calories from carbohydrates can be found in 250 Cassava roots?

(a) 126,000 calories

(b) 133,000 calories

(c) 139,000 calories

(d) 145,000 calories

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Answer:

818.

For a £200 payday loan, a company charges 0.95% of the value of the loan per day as interest. The loan needs to be paid back in full in one lump sum and the interest does not compound. How many days will it take for the interest on the loan to equal the initial loan amount?

(a) 90 days

(b) 95 days

(c) 100 days

(d) 105 days
Answer:

819.

A coins-to-cash machine converts unwanted small change into banknotes for a fee. On the first £5, a 10% fee is charged, on the next £5, a 7.5% fee is charged and on all change afterwards, a 5% fee is charged. If a customer cashes in £30 worth of change, how much money will the coins-to-cash gain from this transaction?

(a) 1.55

(b) 1.66

(c) 1.77

(d) 1.88

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Answer:

820.

A company pays an annual dividend of 3.56% of the value of the shares held. If the dividends are re-invested after each dividend payment, how much dividend income would have been received on an initial investment £3,500 over three annual dividend payments?

(a) 361.68

(b) 368.10

(c) 373.80

(d) 387.27
Answer:

821.

The common cold is a viral infection in which 70% of all cases are mainly due to Rhinovirus, 15% are mainly due to Coronavirus, 10% mainly due to influenza and 5% mainly due to other viruses. Often, more than one virus is present. If 90% of the world population (7,000,000,000) suffers from the common cold at least once a year, how many individuals are infected with the Rhinovirus?

(a) 4,500,000,000 people

(b) 5,040,000,000 people

(c) 5,800,000,000 people

(d) Cannot say
Answer:

822. How many word can be formed by using all the letters of the word, 'ALLAHABAD' ?

(a) 3780

(b) 1890

(c) 7560

(d) 2520
Answer:

823. If the true discount on s sum due 2 years hence at 14% per annum be Rs. 168, the sum due is

(a) Rs.768

(b) Rs.968

(c) Rs.1960

(d) Rs.2400
Answer:

824. A takes twice as much time as B or thrice as much time to finish a piece of work. Working together, they can finish the work in 2 days, can do the work alone in

(a) 4 days

(b) 6 days

(c) 12 days

(d) 15 days
Answer:

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825. A and B walk a circular track. They start at 8 a.m from the same point in the opposite directions. A and B walk at a speed of 2 rounds per hour and 3 rounds per hour respectively. How many times shall they cross each other before 9.30 a.m?

(a) 5

(b) 7

(c) 9

(d) 11

Answer:

826. A 12% stock yielding 10% is quoted at

(a) Rs. 83.33

(b) Rs.110

(c) Rs.112

(d) Rs. 120

Answer:

827. How many cubes of 3 cm edge can be cut of a cube of 18 cm edge?

(a) 36

(b) 216

(c) 218

(d) 432

Answer:

828. A, B and C are employed to do a piece of work for Rs.529. A and B together are supposed to do 19/23 of the work and Band C together 8/23 of the work. What amount should A be paid?

(a) Rs.315

(b) Rs.345

(c) Rs.355

(d) Rs.375
Answer:

829.

A freelance web developer charges £100 per hour, or £600 for a full day (8 hours). Their latest contract requires the web developer to work three full days and two half days (4 hours). Assuming the web developer pays 30% income tax, how much income will the web developer receive from this contract? (after tax)

(a) 1,600

(b) 1,710

(c) 1,820
(d) 1,930
Answer:

830.

A shop is willing to purchase used entertainment products for resale. The shop will purchase CDs for £1 each, DVDs for £2.50 each and video games for £7.50 each. Similarly, every £0.50 worth of products sold to the shop accrues 1 loyalty point. If a customer sells 26 CDs, 10 DVDs and 5 video games, how many loyalty points has the customer accrued from this transaction?

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(a) 142 points

(b) 165 points

(c) 177 points

(d) 175 points
Answer:

831.

A crowd funding campaign to raise seed capital for a new venture succeeded in raising £25,000. In total, 752 investors participated in the crowd funding campaign. Three years later, the new venture had become a success and investors were permitted to make an exit. If the individual share price has since tripled, what would the average profit per investor be from selling the shares?

(a) 57.81

(b) 60.15

(c) 63.89

(d) 66.49
Answer:

832.

A pharmaceutical company dedicates 21% of its annual budget to research and development activities. ½ of this is focused on developing antiviral drugs Of this anti-viral drug research, ¼ is spent on improving existing drugs. If the company's annual budget is £75,000,000, how much money is spent annually on improving existing antiviral drugs?

(a) 1.756,750

(b) 1,854,000

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(c) 1,968,750

(d) 2,015,500
Answer:

833.

In the previous year, a university received 2,129 applications, with 34% of applicants being offered places. However, this year the university only received 1,653 applications, with 48% of applicants being offered places. What is the difference in successful applications between this year's intake and the previous year?

(a) 57 applicants

(b) 60 applicants

(c) 63 applicants

(d) 69 applicants
Answer:

834.

Ann has baked 6 cakes for a bakesale. She cuts the cakes in 8 pieces. After the bake sale is over: 2 cakes each have 1 piece, 1 cake has 4 pieces and 3 cakes each have 2 pieces. If the pieces are put together, how many whole cakes does she have left?

(a) 1 3/4 cakes

(b) 1 1/2 cakes

(c) 2 cakes

(d) 1 1/4 cakes
Answer:

835.

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At a bakery it takes three people 18 minutes to decorate 15 cupcakes.
How many cupcakes can 6 people complete in 1 hour?

(a) 120

(b) 80

(c) 90

(d) 100
Answer:

836. A box contains 2 white balls, 3 black balls and 4 red balls. In how many ways can 3 balls be drawn from the box, if at least one black ball is to be included in the draw?

(a) 48

(b) 64

(c) 69

(d) 71
Answer:

837. The simple interest and the true discount on a certain sum for a given time and at a given rate are Rs. 85 and Rs. 80 respectively. The sum is

(a) Rs.1800

(b) Rs.1450

(c) Rs.1360

(d) Rs.6800
Answer:

838. Ronald and Elan are working on an assignment. Ronald takes 6 hours to type 32 pages on a computer, while Elan takes 5 hours to type 40 pages. How much time will they take, working together on two different computers to type an assignment of 110 pages?

(a) 7 hours 30 minutes

(b) 8 hours

(c) 8 hours 15 minutes

(d) 8 hours 25 minutes
Answer:

839. The distance between two cities A and B is 330 Km. A train starts from A at 8 a.m. and travel towards B at 60 km/hr. Another train starts from B at 9 a.m and travels towards A at 75 Km/hr. At what time do they meet?

(a) 10 a.m

(b) 10.30 a.m

(c) 11 a.m

(d) 11.30 a.m
Answer:

840. A man buys Rs. 25 shares in a company which pays 9% dividend . The money invested is such that it gives 10% on investment. At what price did he buy the shares?

(a) Rs.22

(b) Rs.22.50

(c) Rs.25

(d) Rs.25.50
Answer:

841. A man earns on the first day and spends Rs. 15 on the next day. He again earns Rs. 20 on the third day and spends Rs. 15 on the fourth day. If he continues to save like this, how soon will he have Rs. 60 in hand?

(a) on 17th day

(b) on 27th day

(c) on 30th day

(d) on 40th day
Answer:

842. A money lender finds that dues to a fall in the annual rate of interest from 8% to 7x3/4%, his yearly income diminishes by Rs. 61.50. His capital is
(a) Rs. 22,400

(b) Rs. 23,800

(c) Rs. 24,600

(d) Rs. 26,000
Answer:

843. A hall is 15 m long and 12 m broad. If the sum of the areas of the floor and the ceiling is equal to the sum of the areas of four walls, the volume of the hall is

(a) 720

(b) 900

(c) 1200

(d) 1800
Answer:

844. In a regular week, there are 5 working days and for each day, the working hours are 8. A man gets Rs. 2.40 per hour for regular work and Rs. 3.20 per hours for overtime. If he earns Rs. 432 in 4 weeks, then how many hours does he work for ?

(a) 160

(b) 175

(c) 180

(d) 195
Answer:

845.

Tobin is required to purchase stationary for the office. A pack of A4 paper costs £2.99, a box of pencils costs 1.99 and a pack of ball tip pens costs £0.99. If Tobin is required to purchase 25 packs of A4 paper, 15 boxes of pencils and 20 packs of ball tip pens, how much money will remain unspent with a budget of £130?

(a) 4.85

(b) 5.13

(c) 5.54

(d) 5.60
Answer:

846.

A manatee consumes 10% of its own bodyweight in vegetation per day and the average manatee weighs 450kg. If a sea life park holds 23 manatees, how much vegetation is required to feed them for a week?

(a) 7,035kg

(b) 7,245kg

(c) 7,465kg

(d) 7,621kg
Answer:

847.

A company places an order for 30,000 business cards. For the first 1,000 business cards, the company will be charged 65p per card. For the next 9,000 cards, the company is charged 60p per card. For all following cards, the company is charged 55p. If business cards are delivered in packs of 5,000 cards and a postage and packaging fee of £3.95 is charged per pack, how much will these business cards cost the company all together?

(a) 13,950.75

(b) 14,750.70

(c) 15,100.00

(d) 17,073.70
Answer:

848.

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An individual savings account (ISA) is a financial product, allowing customers to avoid paying tax on savings up to £5,640. One customer has £5,000 in an ISA and another customer has £5,000 in a regular savings account. If both savings accounts pay 3% interest (paid once annually) and both customers pay 20% income tax, how much more interest is earned by the customer with the ISA in 1 year? (income tax is paid on regular interest payments, not ISA's)

(a) 30.00

(b) 32.50

(c) 35.00

(d) 37.50
Answer:

849.

The performance enhancing effects of caffeine are well known, and 6mg per kg of bodyweight is the minimum dose required for performance enhancement. In the case of a 185 pound athlete, what is the minimum caffeine dose needed for performance enhancing effects? (1kg = 2.2 pounds.)

(a) 504.5 mg

(b) 512.5 mg

(c) 526.5 mg

(d) 534.5 mg
Answer:

850. A clock shows 2 o clock in the afternoon. Through how many degrees has the hour hand rotated when the clock shows 7:20 o clock in the evening?

(a) 140

(b) 180

(c) 160

(d) 120
Answer:

851.

A cinema is showing three different movies on three different screens. A total of 920 people have come to see a movie tonight. Movie A is shown on screen A, which has 520 seats - 350 of the visitors are watching this movie tonight. Movie B is shown on screen B, which has 3/4 of the seats that screen A has - 40% of the visitors watch this movie. Movie C is shown on screen C, which has 20% fewer seats than room B. How many empty seats will there be for the showing of movie C?

(a) 110

(b) 80

(c) 202

(d) 312
Answer:

852. In how many different ways can the letters of the word 'AUCTION' be arranged in such a way that the vowels always come together?

(a) 30

(b) 48

(c) 144

(d) 576
Answer:

853. The true discount on a bill due 9 months hence at 12% per annum is Rs.540. Find the amount of the bill and its present worth.

(a) Rs.2500

(b) Rs.5000

(c) Rs. 5500

(d) Rs. 6000
Answer:

854. A can finish a work in 18 days and B can do the same in half the time taken by A. Then, working together, what part of the same work they can finish in a day?

(a) 1/6

(b) 1/9

(c) 2/5

(d) 2/7
Answer:

855. A man in a train notices that he can count 21 telephone posts in one minute. If they are known to be 50 metres apart, then at what speed is the train travelling?

(a) 55 km/hr

(b) 57 km/hr

(c) 60 km/hr

(d) 63 km/hr
Answer:

856. In order to obtain an income of Rs. 650 from 10% stock at Rs. 96, one must make an investment of

(a) Rs. 3100

(b) Rs. 6240

(c) Rs. 6500

(d) Rs. 9600
Answer:

857. A group of students decided to collect as many paise from each member of the group as is the number of members. If the total collection amounts to Rs. 59.29, the number of members in the group is

(a) 57

(b) 67

(c) 77

(d) 87
Answer:

858. In a regular week, there are 5 working days and for each day, the working hours are 8. A man gets Rs. 2.40 per hour for regular work and Rs. 3.20 per hours for overtime. If he earns Rs. 432 in 4 weeks, then how many hours does he work for ?

(a) 160

(b) 175

(c) 180

(d) 195
Answer:

859. A sum fetched a total simple interest of Rs. 4016.25 at the rate of 9. p.c.p.a in 5 years. What is the sum?

(a) Rs. 4462.50

(b) Rs. 8032.50

(c) Rs. 8900

(d) Rs. 8925
Answer:

860. A circular well with a diameter of 2 metres , is dug to a depth of 14 metres. What is the volume of the earth dug out?

(a) 32 m^3

(b) 36 m^3

(c) 40 m^3

(d) 44 m^3
Answer:

861.

A survey was taken within an organization to gather demographic information. It was found that women make up 34% of the workforce and that ethnic minorities make up 28% of the workforce. If there are 1,520 employees at this organization, how many employees are women from ethnic minorities?

(a) 130

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(b) 135

(c) 140

(d) Cannot say
Answer:

862.

An employer receives 15,000 applications for a graduate scheme. Following psychometric testing, 60% of applicants were screened out. Of the successful candidates a further 55% were screened out following an online interview. The remaining candidates were invited to assessment centres, in which 15% received job offers. How many graduates received job offers from the initial applicants?

(a) 390

(b) 395

(c) 400

(d) 405
Answer:

863.

A student union holds an election to elect a new president. Candidate A received 138 votes, Candidate B received 264 votes and candidate C received 87 votes. If 59% of student union members did not vote and there were only three candidates, what percentage of the student union voted for candidate B?

(a) 18.24%

(b) 20.21%

(c) 22.14%

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(d) 24.78%
Answer:

864.

George is traveling in his car at a speed of 30 metres per second. The speed limit for the road he is traveling on is 70 miles per hour. By how much is George traveling under or above the speed limit? (1 mile = 1.609344 kilometres).

(a) Under by 6 miles per hour

(b) Under by 3 miles per hour

(c) Over by 3 miles per hour
(d) Over by 6 miles per hour
Answer:

865.

A man buys 15 liters of liquid which contains 20% water. He then mixes it with 25 liters of another liquid containing 70% water. What is the percentage of water in the new mixture?

(a) 46.75

(b) 41.6

(c) 51.25

(d) 61.2
Answer:

866.

Jennifer runs a sightseeing business. Over a period of one year she averages 12 customers per week. Every customer pays $25 one sightseeing flight. Her expenses are laid out below.
Fuel: $50 per flight/customer
Aircraft maintenance: $750/week
Advertising: $500/month
Insurance: $1000/month
Other expenses: $150/week
How much is her yearly income in dollars after expenses?

(a) 58,000

(b) 60,000

(c) 59,500

(d) 62,500
Answer:

867. How many words can be formed from the letters of the word 'SIGNATURE' so that the vowels always come together?

(a) 720

(b) 1440

(c) 2880

(d) 17280
Answer:

868. P can complete a work in 12 days working 8 hours a day,Q can complete the same work in 8 days working 10 hours a day. If both P and Q work together, working 8 hours a day, in how many days can they complete the work?

(a) 5x5/11

(b) 5x6/11

(c) 6x5/11

(d) 6x6/11

Answer:

869. A man invested Rs. 1552 in a stock at 97 to obtain an income of Rs. 128. The dividend from the stock is

(a) 7.5%

(b) 8%

(c) 9.7%

(d) 10%

Answer:

870. On a sports day, if 30 children were made to stand in a column, then 16 columns could be formed. If 24 children were to stand in a column, then how many columns could be formed?

(a) 20

(b) 22

(c) 29

(d) 452

Answer:

871. A sum of money at simple interest amounts to Rs.815 in 3 years and to Rs. 854 in 4 years. The sum is

(a) Rs. 650

(b) Rs. 690

(c) Rs. 698

(d) Rs. 700
Answer:

872. A hollow iron pipe is 21 cm long and its external diameter is 8 cm. If the thickness of the pipe is 1 cm and iron weighs 8 g/cm3, then the weight of the pipe is

(a) 3.6 kg

(b) 3.696 kg

(c) 36 kg

(d) 36.9 kg
Answer:

873.

A hotel currently has 80% of its rooms booked for the first of May. In order to reach 100% occupancy, the hotel has lowered the price of the rooms by 12.5%. If there are 25 rooms still available, and each room was originally £150 per night, how much additional revenue is made by reaching 100% occupancy?

(a) 3,821.25

(b) 3,358.75

(c) 3,452.55

(d) 3,524.25
Answer:

874.

A Tobin tax is a tax on spot conversion of one currency into another. An investor converts 12,000 US dollars into Euros on a foreign exchange market. If the exchange charges a 3% fee per transaction, and a 1.5% Tobin tax is charged on the value of the transaction after paying the fee, how many Euros will the investor have after the conversion? (1 US dollar = 0.75 Euros)

(a) 8,102.84

(b) 8,235.54

(c) 8,325.36

(d) 8,599.05
Answer:

875.

An executive headhunter charges 1/3 of the basic salary of each executive they provide to their clients. Of this 1/3, the headhunter personally receives 50% of this fee as a personal commission. If the headhunter provides 12 executives per year, who have an average basic salary of £150,000, how much commission will the executive headhunter earn?

(a) 225,000

(b) 250,000

(c) 275,000

(d) 300,000
Answer:

876.

Jacob works part time at £6.20 an hour. Jacob is paid every four weeks. In the first week, Jacob works for 16 hours, in the second he works for 10 hours, in the third he works for 13 hours and in the fourth he works for 19 hours. Assuming Jacob pays 20% income tax, how much money will Jacob earn at the end of four weeks after tax?

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(a) 268.24

(b) 274.24

(c) 287.68

(d) 297.34
Answer:

876. A, B, and C can complete a piece of work in 24,6 and 12 days respectively. Working together , they will complete the same work in

(a) 1/24 day

(b) 7/24 day

(c) 3x3/7 days

(d) 4 days
Answer:

877. In a garden there are 10 rows and 12 columns of mango trees. The distance between the two trees is 2 metres and a distance of one metre is left from all sides of the boundary of the garden. The length of the garden is

(a) 20 m

(b) 22 m

(c) 24 m

(d) 26 m
Answer:

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878. How much time will it take for an amount of Rs. 450 to yield Rs. 81 as interest at 4.5% per annum of simple interest?

(a) 3.5 years

(b) 4 years

(c) 4.5 years

(d) 5 years
Answer:

879. A metallic sheet is of rectangular shape with dimensions 48 m x 36 m. From each of its corners, a square is cut off so as to make an open box. If the length of the square is 8 m, the volume of the box (in m3) is

(a) 3220

(b) 4830

(c) 5120

(d) 6420
Answer:

880. Three pipes A,B and C are connected to a tank. These pipes can fill the tank separately in 5hr, 10 hr and 15hr respectively. When all the three pipes were opened simultaneously, it was observed that pipes A and B were supplying water at (3/4)th of their normal rates for the 1st hour after which they supplied water at normal rate. Pipe C supplied water at (2 /3)rd of its normal rate for 1st 2 hour, after which it supplied at its normal rate. In how much time, tank would be filled?

(a) 1.05 hr

(b) 2.05 hr

(c) 3.05 hr

(d) 4.05 hr
Answer:

881. If A and B work together, they will complete a job in 7.5 days. However, if A works alone and completes half the job and then B takes over and completes the remaining half alone, they will be able to complete the job in 20 days. How long will B alone take to do the job if A is more efficient than B?

(a) 20 days

(b) 40 days

(c) 36 days

(d) 30 days
Answer:

882. Abhishek starts to paint a fence on one day. On the second day, two more friend of Abhishek join him. On the third day 3 more friends of him join him and so on. If the fence is completely painted this way in exactly 20 days, then find the number of days in which 10 girls painting together can paint the fence completely, given that every girl can paint twice as fast as Abhishek and his friends(Boys)?(Assume that the friends of Abhishek are all boys).

(a) 20

(b) 40

(c) 45

(d) 77
Answer:

883. A and B undertake to do a piece of work for Rs 600. A alone can do it in 6 days while B alone can do it in 8 days. With the help of C, they can finish it in 3 days, Find the share of C?

(a) 70

(b) 75

(c) 80

(d) 85

Answer:

884. There are 12 pipes that are connected to a tank. Some of them are fill pipes and the others are drain pipes. Each of the fill pipes can fill the tank in 8 hours and each of the drain pipes can drain the tank completely in 6 hours. If all the fill pipes and drain pipes are kept open, an empty tank gets filled in 24 hours. How many of the 12 pipes are fill pipes?

(a) 6

(b) 8

(c) 7

(d) 5

Answer:

885. Starting from my office, I reach the house 20 min late if I walk at 3kmph. Instead, if I walk at 4kmph, I reach the house 15 min early. How far is my house from my office?

(a) 4 km

(b) 5 km

(c) 7 km

(d) 6 km
Answer:

886. Two boats, traveling at 5 and 10 kms per hour, head directly towards each other. They begin at a distance of 20 kms from each other. How far apart are they (in kms) one minute before they collide?

(a) 1/12

(b) 1/6

(c) 1/4

(d) 1/3
Answer:

887. A bus overtakes two boys who are walking in the direction of the bus at 2 km/hr and 4 km/hr in 9 sec and 10sec respectively. The length of the bus and its speed are

(a) 50m and 55/9 m/s

(b) 80m and 88/9 m/s

(c) 70m and 77/9 m/s

(d) 60m and 66/9 m/s
Answer:

888. A train moves past a telegraph post and a bridge 264 m long in 8 seconds and 20 seconds respectively. What is the speed of the train?

(a) 69.5 km/hr

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(b) 70 km/hr

(c) 79 km/hr

(d) 79.2 km/hr
Answer:

889. It was calculated that 75 men could complete a piece of work in 20 days. When work was scheduled to commence, it was found necessary to send 25 men to another project. How much longer will it take to complete the work?

(a) 15

(b) 20

(c) 25

(d) 30
Answer:

890. A man was engaged on a job for 30 days on the condition that he would get a wage of Rs. 10 for the day he works, but he have to pay a fine of Rs. 2 for each day of his absence. If he gets Rs. 216 at the end, he was absent for work for ... days.

(a) 5 days

(b) 6 days

(c) 7 days

(d) 9 days
Answer:

891.

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An office retailer sells A4 paper in bulk. The retailer sells five packs of A4 paper per box and each pack contains 500 sheets of paper. If the paper is sold for £3.50 per hundred sheets, how much will 12 boxes of paper cost to purchase?

(a) 1,050

(b) 1,150

(c) 1,250

(d) 1,350
Answer:

892.

A market stand was able to sell 28 of item A, 17 of item B and 23 of item C in one day. Item A sells for £5.95, item B sells for £4.95 and item C sells for £9.95. If the daily sales target is £400, by what amount has today's sales exceeded the daily target?

(a) 67.20

(b) 70.90

(c) 73.80

(d) 79.60
Answer:

893.

A store bought garden pond has a 1,200 litre capacity. A garden hose is able to discharge 0.6 litres of water per second. How long in minutes would it take to fill the garden pond to 80% capacity using this garden hose?

(a) 24.6 minutes

(b) 25.1 minutes

(c) 26.7 minutes

(d) 27.8 minutes
Answer:

894.

An online advertisement was viewed by 100,019 people in one day. Of these people, 2.3% clicked on the advertisement. Of those that clicked on the advertisement, 5% made a purchase. The average purchase on the website is £35.40, how much revenue was generated from sales on this day?

(a) 3,624

(b) 3,758

(c) 3,824

(d) 4,071
Answer:

895. A contractor agreeing to finish a work in 150 days, employed 75 men each working 8 hours daily. After 90 days, only 2/7 of the work was completed. Increasing the number of men by _____ each working now for 10 hours daily, the work can be completed in time.

(a) 100

(b) 150

(c) 175

(d) 200
Answer:

896. what is a percent of b divided by b percent of a?

(a) a

(b) b

(c) 1

(d) 10
Answer:

897. A man bought a horse and a cart. If he sold the horse at 10 % loss and the cart at 20 % gain, he would not lose anything; but if he sold the horse at 5% loss and the cart at 5% gain, he would lose Rs. 10 in the bargain. The amount paid by him was Rs._____ for the horse and Rs._____ for the cart.

(a) Cost price of horse = Rs. 400 & the cost price of cart = 400

(b) Cost price of horse = Rs. 400 & the cost price of cart = 200

(c) Cost price of horse = Rs. 200 & the cost price of cart = 200

(d) Cost price of horse = Rs. 200 & the cost price of cart = 400
Answer:

898. A can lay railway track between two given stations in 16 days and B can do the same job in 12 days. With the help of C, they did the job in 4 days only. Then, C alone can do the job in

(a) 9x1/5 days

(b) 9x2/5 days

(c) 9x3/5 days

(d) 10 days

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Answer:

899. A boy was asked to multiply a number by 25. He instead multiplied the next number by 52 and got the answers 324 more than the correct answer. The number to be multiplied was

(a) 10

(b) 12

(c) 15

(d) 25
Answer:

900. Spheres A and B have their radil 40 cm and 10 cm respectively. The ratio of the surface area of A to the surface area of B is

(a) 1 : 4

(b) 1 : 16

(c) 4 : 1

(d) 16 : 1
Answer:

901. Pipe A fills a tank of 700 litres capacity at the rate of 40 litres a minute. Another pipe B fills the same tank at the rate of 30 litres a minute. A pipe at the bottom of the tank drains the tank at the rate of 20 litres a minute. If pipe A is kept open for a minute and then closed and pipe B is kept open for a minute and then closed and then pipe C is kept open for a minute and then closed and the cycle repeated, how long will it take for the empty tank to overflow?

(a) 42 minutes 20 seconds

(b) 14 minutes 20 seconds

(c) 39 minutes 20 seconds

(d) 40 minutes 20 seconds
Answer:

902. A man takes 20 days to reach the point B under normal circumstances. But, due to the increasingly hostile weather conditions the distance they travel every day reduces by 20%. In how many days would the man reach the point B, taking into consideration weather conditions?

(a) 25

(b) 50

(c) 100

(d) None of these
Answer:

903. A tank is fitted with 8 pipes, some of them that fill the tank and others that are waste pipe meant to empty the tank. Each of the pipes that fill the tank can fill it in 8 hours, while each of those that empty the tank can empty it in 6 hours. If all the pipes are kept open when the tank is full, it will take exactly 6 hours for the tank to empty. How many of these are fill pipes?

(a) 2

(b) 4

(c) 6

(d) 5
Answer:

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904. A and B can do a piece of work in 45 days and 40 days respectively. They began to do the work together but A leaves after some days and then B completed the remaining work in 23 days. The number of days after which A left the work was

(a) 12

(b) 11

(c) 10

(d) 9
Answer:

905. A bus without stopping travels at an average speed of 60 km/hr and with stoppages at an average speed of 40 km/hr. What is the total time taken by the bus for stoppages on a route of length 300km?

(a) 4 hr

(b) 3 hr

(c) 2.5 hr

(d) 3.5 hr
Answer:

906. The speed of a bus during the second hour of its journey is twice that in the first hour. Also, its speed during the third hour is two-third the sum of its speeds in the first two hours. Had the bus travelled for three hours at the speed of the first hour, it would have travelled 120 km less. Find the average speed of the bus for the first three hours.

(a) 60 kmph

(b) 70 kmph

(c) 80 kmph

(d) 100 kmph
Answer:

907. Arun, Barun and Kiranmala start from the same place and travel in the same direction at speeds of 30, 40 and 60 km per hour respectively. Barun starts two hours after Arun. If Barun and Kiranmala overtake Arun at the same instant, how many hours after Arun did Kiranmala start?

(a) 3

(b) 3.5

(c) 4

(d) 4.5
Answer:

908. Karan and Arjun run a 100-meter race, where Karan beats Arjun 10 metres. To do a favour to Arjun, Karan starts 10 metres behind the starting line in a second 100 metre race. They both run at their earlier speeds. Which of the following is true in connection with the second race?

(a) Karan and Arjun reach the finishing line simultaneously

(b) Arjun beats Karan by 1 metre

(c) Arjun beats Karan by 11 metres

(d) Karan beats Arjun by 1 metre
Answer:

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909. A 300 metre long train crosses a platform in 39 seconds while it crosses a signal pole in 18 seconds. What is the length of the platform?

(a) 320 m

(b) 350 m

(c) 650 m

(d) Data inadequate
Answer:

910.

Alpacas need to eat 1.5 % of their bodyweight in food per day, and the average weight of an alpaca is 150 lbs. If alpacas eat hay, and a 20 lb. bale of hay can be purchased for £2.99, how much would it cost to feed an average alpaca for a year (52 weeks)?

(a) 114.75

(b) 122.59

(c) 138.24

(d) 142.54
Answer:

911.

After undergoing a quality standards training program, John was able to produce 35 widgets per hour, compared to 29 widgets per hour prior to the training program. If John works 40 hours per week, how many more widgets per week does John produce since the training program?

(a) 240 widgets

(b) 250 widgets

(c) 260 widgets

(d) 270 widgets
Answer:

912.

Ralph sells his product for £9.99 to customers. He purchases his product at the wholesale price of £39.50 for a pack of ten. How much profit would Ralph make through the retail sale of 125 units of his product?

(a) 720.75

(b) 725.25

(c) 730.75

(d) 735.25
Answer:

913.

A country sees 21,634 males and 22,028 females born in one year. If the country has a population of 32.4 million people, what percentage of the population are female?

(a) 50.2%

(b) 50.3%

(c) 50.4%

(d) Cannot say
Answer:

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914. In a kilometer race, If Abhishek gives Bharti a 40m start, Abhishek wins by 19sec. But if Abhishek gives Bharti a 30 sec start, Bharti wins by 40 m. Find the time taken by Bharti to run 5,000m?

(a) 150 sec

(b) 450 sec

(c) 750 sec

(d) 825 sec
Answer:

915. A man jogging inside a railway tunnel at a constant speed hears a train approaching the tunnel from behind at a speed of 30km/h, when he is one third of the way inside the tunnel. Whether he keeps running forward or turns back, he will reach the end of the tunnel at the same time the train reaches that end. The speed at which the man is running is

(a) 6 km/hr

(b) 8 km/hr

(c) 12 km/hr

(d) 10 km/hr
Answer:

916. A boat goes 30 km. upstream and 44 km. downstream in 10 hours. In 13 hours, it can go 40 km upstream and 55 km down-stream. The speed of the boat in still water is

(a) 3 km/hr

(b) 4 km/hr

(c) 8 km/hr

(d) 6 km/hr
Answer:

917. If a light flashes every 6 seconds, how many times will it flash in ¾ of an hour?

(a) 449 times

(b) 450 times

(c) 451 times

(d) 360 times
Answer:

918. The length of the side of a square is represented by x+2. The length of the side of an equilateral triangle is 2x. If the square and the equilateral triangle have equal perimeter,then the value of x is

(a) 2

(b) 3

(c) 4

(d) 6
Answer:

919. There are 3 persons Sudhir, Arvind, and Gauri. Sudhir lent cars to Arvind and Gauri as many as they had already. After some time Arvind gave as many cars to Sudhir and Gauri as many as they have. After sometime Gauri did the same thing. At the end of this transaction each one of them had 24. Find the cars each originally had.

(a) Sudhir had 39 cars, Arvind had 12 cars and Gauri had 21 cars

(b) Sudhir had 12 cars, Arvind had 21 cars and Gauri had 39 cars

(c) Sudhir had 21 cars, Arvind had 39 cars and Gauri had 12 cars

(d) Sudhir had 39 cars, Arvind had 21 cars and Gauri had 12 cars
Answer:

920. A train 110 metres long is running with a speed of 60 kmph. In what time will it pass a man who is running at 6 kmph in the direction opposite to that in which the train is going?

(a) 5 sec

(b) 6 sec

(c) 7 sec

(d) 10 sec
Answer:

921. Worker A takes 8 hours to do a job. Worker B takes 10 hours to do the same job. How long should it take both A and B, working together but independently, to do the same job?

(a) 2x4/9

(b) 4x4/9

(c) 5x4/9

(d) 4x2/9
Answer:

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922. The cost of the paint is Rs. 36.50 per kg. If 1 kg of paint covers 16 squares feet, how much will it cost to paint outside of a cube having 8 feet each side?

(a) Rs. 692

(b) Rs. 768

(c) Rs. 876

(d) Rs. 972
Answer:

923. Along a yard 225 metres long, 26 trees are painted at equal distances, one tree being at each end of the yard. What is the distance between two consecutive trees?

(a) 9 metres

(b) 12 metres

(c) 15 metres

(d) 18 metres
Answer:

924. A certain amount earns simple interest of Rs. 1750 after 7 years. Had the interest been 2% more, how much more interest would it have earned?

(a) Rs. 35

(b) Rs. 245

(c) Rs. 350

(d) D. cannot be determined
Answer:

925. The cost of the paint is Rs. 36.50 per kg. If 1 kg of paint covers 16 squares feet, how much will it cost to paint outside of a cube having 8 feet each side?

(a) Rs. 692

(b) Rs. 768

(c) Rs. 876

(d) Rs. 972
Answer:

926. Two pipes can fill a tank in 20 and 24 minutes respectively and a waste pipe can empty 3 gallons per minute. All the three pipes working together can fill the tank in 15 minutes. The capacity of the tank in gallons is

(a) 100

(b) 110

(c) 120

(d) 140
Answer:

927. 39 persons can repair a road in 12 days, working 5 hours a day. In how many days will 30 persons, working 6 hours a day, complete the work?

(a) 10

(b) 13

(c) 14

(d) 15

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Answer:

928. Anil does a work in 90 days, Bittu in 40 days and Chintu in 12 days. They work one after another for a day each, starting with Anil followed by Bittu and then by Chintu. If the total wages received are Rs 360 and Anil, Bittu, Chintu share them in the ratio of the work done, find their respective individual wages.

(a) Rs 40, Rs 60 and Rs 260

(b) Rs 36, Rs 81 and Rs 243

(c) Rs 42, Rs 86 and Rs 232

(d) Rs 38, Rs 88 and Rs 234
Answer:

929. There are 12 pipes attached to a tank. Some of them are fill pipes and some are drain pipes. Each of the fill pipes can fill the tank in 12 hours, while each of the drain pipes will take 24 hours to drain a full tank completely. If all the pipes are kept open when the tank was empty, it takes 2 hours for the tank to overflow. How many of these pipes are drain pipes?

(a) 6

(b) 11

(c) 4

(d) 7
Answer:

930. Rajesh walks to and fro to a shopping mall. He spends 30 minutes shopping. If he walks at speed of 10 km an hour, he returns to home at 19.00 hours. If he walks at 15 km an hour, he returns to home at 18.30 hours. How fast must he walk in order to return at 18.15 hours?

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(a) 17 km/hr

(b) 18 km/hr

(c) 19 km/hr

(d) 20 km/hr
Answer:

931. P beats Q by 5 seconds in a race of 1000m and Q beats R by 5 metres in a race of 100m. By how many seconds does P beats R in a race of 1000 m?

(a) 5 sec

(b) 7 sec

(c) 10 sec

(d) Cannot be determined
Answer:

932. A passenger train covers the distance between stations X and Y, 50 minutes faster than a goods train. Find this distance if the average speed of the passenger train is 60 kmph and that of goods train is 20 kmph

(a) 20 kms

(b) 25 kms

(c) 45 kms

(d) 40 kms
Answer:

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933. Two cities, A and B, at a distance of 50 km, are connected by two separate roads. The speed of any vehicle traveling between the two cities on road 1 is 50 km/hr, while the speed on road 2 is (80/n) km/hr, where n is the number of vehicles (including the concerned vehicle). If you travel in a vehicle from A to B on road 1 and come back from B to A on road 2 (where there are already three vehicles plying), your approximate average speed is

(a) 26 km/hr

(b) 29 km/hr

(c) 32 km/hr

(d) 35 km/hr
Answer:

934. If a man cycles at 10 km/hr, then he arrives at a certain place at 1 p.m. If he cycles at 15 km/hr, he will arrive at the same place at 11 a.m. At what speed must he cycle to get there at noon?

(a) 11 km/hr

(b) 12 km/hr

(c) 13 km/hr

(d) 14 km/hr
Answer:

935. In an election contested by two parties, Party D secured 12% of the total votes more than Party R. If party R got 132,000 votes, by how many votes did it lose the election?

(a) 300,000

(b) 168,000

(c) 36,000

(d) 24,000
Answer:

936.

A van is able to transport 0.8 metric tons of confidential documents when fully laden. A corporate headquarters needs to transport 29 metric tons of confidential documents. If the van can make two journeys per day, how many days will it take to transport all of the documents?

(a) 17 days

(b) 18 days

(c) 19 days

(d) 20 days
Answer:

937.

One Japanese Yen is valued at 0.0066 British pounds. One British pound is valued at 1.57 US dollars. What is the value of 1,250,000 Japanese yen in US dollars?

(a) 9,954.50

(b) 10,956.50

(c) 11,785.50

(d) 12,952.50
Answer:

938.

50kg of sugar juice can be extracted from 100kg of sugarcane, which is used to produce sugar. Of this sugar juice, 22% is pure sugar and can be extracted. Using 10 metric tons of sugarcane, how much sugar can be produced? (1 metric ton = 1,000kg)

(a) 900kg

(b) 1,000kg

(c) 1,100kg

(d) 1,200kg

Answer:

939.

A commodities trader purchased 2.5 metric tons of Zinc at the market price of $1,823.50 per metric ton. Three weeks later, the price per ton of zinc rose to $2,018.50. If the trader charges a 15% commission fee on all profits generated, how much commission will the trader have earned?

(a) 67.52

(b) 70.54

(c) 73.13

(d) 76.25

Answer:

940. A vendor sells 60 percent of apples he had and throws away 15 percent of the remainder. Next day he sells 50 percent of the remainder and throws away the rest. What percent of his apples does the vendor throw?

(a) 17

(b) 23

(c) 77

(d) None of these
Answer:

941. 30% of the men are more than 25 years old and 80% of the men are less than or equal to 50 years old. 20% of all men play football. If 20% of the men above the age of 50 play football, what percentage of the football players are less than or equal to 50 years?

(a) 15%

(b) 20%

(c) 80%

(d) 70%
Answer:

942. A bag contains 3 white balls and 2 black balls. Another bag contains 2 white and 4 black balls. A bag and a ball are picked random. The probability that the ball will be white is

(a) 7/11

(b) 7/30

(c) 5/11

(d) 7/15
Answer:

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943. A and B together can complete a work in 12 days. A alone can complete it in 20 days. If B does the work only for half a day daily, then in how many days A and B together will complete the work?

(a) 10 days

(b) 11 days

(c) 15 days

(d) 20 days
Answer:

944. What is the present worth of Rs. 132 due in 2 years at 5% simple interest per annum?

(a) Rs. 112

(b) Rs. 118.80

(c) Rs. 120

(d) Rs. 122
Answer:

945. A bath can be filled by the cold water pipe in 10 min and by hot water pipe in 15 min (independently each). A person leaves the bathroom after turning on both pipes simultaneously and returns at the moments when the bath should be full. Finding, however, that the waste pipe has been open he now closes it. In 4 min more, bath is full. In what time would be the waste pipe empty it?

(a) 9 min

(b) 12 min

(c) 15 min

(d) 14 min
Answer:

946. A can build up a structure in 8 days and B can break it is 3 days. A has worked for 4 days and then B joined to work with A for another 2 days only. In how many days will A alone build up the remaining part of the structure?

(a) 10

(b) 9

(c) 12

(d) None of these
Answer:

947. Pipes A and B can fill a tank in 12 min and 16 min respectively. Both are kept open for 'n' min and then B is closed and A fills the rest of the tank in 5 min. The time 'n' after which B was closed is:

(a) 3 min

(b) 2 min

(c) 5 min

(d) 4 min
Answer:

948. In a 500m race Dishu beats Abhishek by 100m or 5 seconds. In another race on the same track at the same speeds, Abhishek and Prashant start at one end while Dishu starts at the opposite end. How many metres would Abhishek have covered, by the time Dishu meets Prashant given that Dishu's speed is 10 m/sec more than that of Prashant.

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(a) 200 m

(b) 225 m

(c) 250 m

(d) 275 m
Answer:

949. The speed of a motor boat itself is 20 km/h and the rate of flow of the river is 4 km/h. Moving with the stream the boat went 120 km. What distance will the boat cover during the same time going against the stream?

(a) 80 km

(b) 180 km

(c) 60 km

(d) 100 km
Answer:

950. Ram covers a part of the journey at 20 kmph and the balance at 70 kmph taking total of 8 hours to cover the distance of 400 km. How many hours has he been driving at 20 kmph?

(a) 2 hours

(b) 3 hours 20 minutes

(c) 4 hours 40 minutes

(d) 3 hours 12 minutes
Answer:

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951. I travel the first part of my journey at 40 kmph and the second part at 60 kmph and cover the total distance of 240 km to my destination in 5 hours. How long did the first part of my journey last?

(a) 4 hours

(b) 2 hours

(c) 3 hours

(d) 2 hours 24 minutes
Answer:

952. P and Q walk from A to B, a distance of 27 km at 5 km/hr and 7 km/hr respectively. Q reaches B and immediately turns back meeting P at T. What is the distance from A to T?

(a) 25 km

(b) 22.5 km

(c) 24 km

(d) 20 km
Answer:

953. I forgot the last digit of a 7-digit telephone number. If 1 randomly dial the final 3 digits after correctly dialing the first four, then what is the chance of dialing the correct number?

(a) 1/1001

(b) 1/1000

(c) 1/999

(d) 1/990

Answer:

954. One hundred identical coins each with probability 'p' showing up heads and tossed is

(a) 1/2

(b) 49/101

(c) 50/101

(d) 51/101

Answer:

955. Dexter and Prexter are competing with each other in a friendly community competition in a pool of 50m length and the race is for 1000m. Dexter crosses 50m in 2 min and Prexter in 3 min 15 sec. Each time they meet/cross each other, they do handshake's. How many such handshake's will happen if they start from the same end at the same time?

(a) 18

(b) 19

(c) 20

(d) 17

Answer:

956. A ball is thrown twice from a place with the gap of 34 minutes between the two shots. A person approaching this point in a bus heard the second shot 33 minutes after he heard the first shot. What is the speed of bus (in kmph) if sound travels at 330 m/s?

(a) 30

(b) 33

(c) 36

(d) 42
Answer:

957. Three friends A, B and C run around a circular track of length 120 metres at speeds of 5 m/s, 7 m/sec and 15 m/sec, starting simultaneously from the same point and in the same direction. How often will the three of them meet?

(a) Every 60 seconds

(b) Every 120 seconds

(c) Every 30 seconds

(d) None of these
Answer:

958. A man can hit a target once in 4 shots. If he fires 4 shots in succession, what is the probability that he will hit his target?

(a) 1

(b) 1/256

(c) 81/256

(d) 175/256
Answer:

959. Dinesh speaks truth in 3/4 cases and Abhishek lies in 1/5 cases. What is the percentage of cases in which both Dinesh and Abhishek contradict each other in stating a fact?

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(a) 60%

(b) 30%

(c) 20%

(d) 15%
Answer:

960.

Two competitors sell product A. At competitor 1, product A is sold for £9.99. At competitor 2, product A is sold for £8.99. If competitor 1 purchases product A for the wholesale price of £4.50 each, and competitor 2 purchases product A for the wholesale price of £4.00, how much extra profit is generated from 150 sales by competitor 1 than competitor 2?

(a) 75

(b) 80

(c) 85

(d) 90
Answer:

961.

The total population of the people's republic of China is 1,353,821,000 and the total population of India is 1,210,569,573. The total gross domestic product (GDP) of the people's republic of China is $13.623 trillion and the total GDP of India is $4.711 trillion. What is the difference between the average GDP per capita (per person) in the people's republic of China and India?

(a) 5,789.78

(b) 5,862.24

(c) 5,965.50

(d) 6,171.07
Answer:

962.

A car traveling at 29 miles per hour drives into a tunnel which is 7km long. How long does it take the car to fully pass through the tunnel? (1 mile = 1.609344km)

(a) 6minutes

(b) 7 minutes

(c) 8 minutes

(d) 9 minutes
Answer:

963.

A numerical reasoning test contains 18 questions, with a time limit of 30 seconds per question. A candidate takes 20 seconds to complete 6 questions, 25 seconds to complete 5 questions and 18 seconds to complete 7 questions, how much time went unused from the overall time limit of the test?

(a) 136 seconds

(b) 147 seconds

(c) 158 seconds

(d) 169 seconds
Answer:

964. A vendor sells 60 percent of apples he had and throws away 15 percent of the remainder. Next day he sells 50 percent of the remainder and throws away the rest. What percent of his apples does the vendor throw?

(a) 17

(b) 23

(c) 77

(d) None of these
Answer:

965. When processing flower-nectar into honeybees' extract, a considerable amount of water gets reduced. How much flower-nectar must be processed to yield 1kg of honey, if nectar contains 50% water, and the honey obtained from this nectar contains 15% water?

(a) 1.5 kgs

(b) 1.7 kgs

(c) 3.33 kgs

(d) None of these
Answer:

966. Shyam can do a job in 20 days, Ram in 30 days and Singhal in 60 days. If Shyam is helped by Ram and Singhal every 3rd day, how many days will it take for them to complete the job?

(a) 12

(b) 16

(c) 15

(d) 10
Answer:
967. An automobile financier claims to be lending money at simple interest, but he includes the interest every six months for calculating the principal. If he is charging an interest of 10%, the effective rate of interest becomes

(a) 10%

(b) 10.25%

(c) 10.5%

(d) 20.5%
Answer:

968. A can do a work in 15 days and B in 20 days. If they work on it together for 4 days, then the fraction of the work that is left is

(a) 1/4

(b) 1/10

(c) 7/15

(d) 8/15
Answer:

969. A man can do a piece of work in 60 hours. If he takes his son with him and both work together then the work is finished in 40 hours. How many hours will the son take to do the same job, if he worked alone on the job?

(a) 20

(b) 60

(c) 100

(d) 120
Answer:

970. Due to hole at the bottom of the tank, a tap takes 2 more minutes to completely fill the tank. Due to leakage of water through this hole, a bucket filled completely with water gets emptied in 4 minutes. In how much time can the tap fill the tank, if there was no hole at the bottom at the tank?

(a) 8 min

(b) 2 min

(c) 4 min

(d) 6 min
Answer:

971. A can complete a project in 20 days and B can complete the same project in 30 days. If A and B start working on the project together and A quits 10 days before the project is completed, in how many days will the project be completed?

(a) 18

(b) 27

(c) 26.67

(d) 16
Answer:

972. A red light flashes 3 times per minute and a green light flashes 5 times in two minutes at regular intervals. If both lights start flashing at the same time, how many times do they flash together in each hour?

(a) 30

(b) 29

(c) 31

(d) 32
Answer:

973. If the wheel of a bicycle makes 560 revolutions in travelling 1.1 km, what is its radius?

(a) 31.25 cm

(b) 37.75 cm

(c) 35.15 cm

(d) 11.25 cm
Answer:

974. A ship develops a leak 12 km from the shore. Despite the leak, the ship is able to move towards the shore at a speed of 8 km/hr. However, the ship can stay afloat only for 20 minutes. If a rescue vessel were to leave from the shore towards the ship and it takes 4 minutes to evacuate the crew and passengers of the ship, what should be the minimum speed of the rescue vessel in order to be able to successfully rescue the people aboard the ship?

(a) 53 km/hr

(b) 37 km/hr

(c) 28 km/hr

(d) 44 km/hr
Answer:

975. Rajesh travelled from city A to city B covering as much distance in the second part as he did in the first part of this journey. His speed during the second part was twice as that of the speed during the first part of the journey. What is his average speed of journey during the entire travel?

(a) His average speed is the harmonic mean of the individual speeds for the two parts

(b) His average speed is the arithmetic mean of the individual speeds for the two parts

(c) His average speed is the geometric mean of the individual speeds for the two parts

(d) Cannot be determined
Answer:

976. By walking at 3/4th of his usual speed, a man reaches office 20 minutes later than usual. What is his usual time?

(a) 30 min

(b) 60 min

(c) 70 min

(d) 50 min
Answer:

977. Due to hole at the bottom of the tank, a tap takes 2 more minutes to completely fill the tank. Due to leakage of water through this hole, a bucket filled

completely with water gets emptied in 4 minutes. In how much time can the tap fill the tank, if there was no hole at the bottom at the tank?

(a) 8 min

(b) 2 min

(c) 4 min

(d) 6 min
Answer:

978. A red light flashes 3 times per minute and a green light flashes 5 times in two minutes at regular intervals. If both lights start flashing at the same time, how many times do they flash together in each hour?

(a) 30

(b) 29

(c) 31

(d) 32
Answer:

979. The monthly incomes of A and B are in the ratio 4 : 5, their expenses are in the ratio 5 : 6. If 'A' saves Rs.25 per month and 'B' saves Rs.50 per month, what are their respective incomes?

(a) Rs.400 and Rs.500

(b) Rs.240 and Rs.300

(c) Rs.320 and Rs.400

(d) Rs.440 and Rs.550

Answer:

980. There is certain numbers of toys in the box. They are divided into such a way that the person who gets 1/4 of the whole gets thrice of what the others get on an average. Find the number of people amongst whom the toys are distributed?

(a) 8

(b) 10

(c) 12

(d) 9
Answer:

981. Rs 4830 is divided among Abhishek, Dishant and Prashant such that if Abhishek's share diminishes by Rs 5, Dishant's share diminishes by Rs 10 and Prashant's share diminishes by Rs 15, their shares will be in the ratio 5:4:3. Find the Dishant's original share?

(a) 1610

(b) 2010

(c) 2410

(d) 1590
Answer:

982. A 6x6 grid is cut from an 8x8 chessboard. In how many ways can we put two identical coins, one on the black square and one on a white square on the grid, such that they are not placed in the same row or in the same column?

(a) 216

(b) 324

(c) 144

(d) 108
Answer:

983. A committee is to be formed comprising 7 members such that there is a simple majority of men and at least 1 woman. The shortlist consists of 9 men and 6 women. In how many ways can this committee be formed?

(a) 3724

(b) 3630

(c) 4914

(d) 3824
Answer:

984.

A film was recently released on DVD and during its first week of sales, 2,150 copies are sold. If the DVD is sold for £9.99 each, how much revenue was made on average per day during the first week of sales?

(a) 2,954.21

(b) 3,068.36

(c) 3,145.87

(d) 3,245.96
Answer:

985.

A cola drink contains a secret ingredient. Every litre of cola contains 32 grams of this secret ingredient. If the cola is sold wholesale by the barrel, and each barrel contains 40 gallons of cola, how much of the secret ingredient is present in the barrel? (1 gallon = 4.54609 litres)

(a) 5,475 grams

(b) 5,585 grams

(c) 5,657 grams

(d) 5,819 grams
Answer:

986.

An art broker sells paintings from leading artists for a commission of 10%. Similarly, when auctioning paintings, the broker earns an additional £150 per item through auction fees. If the broker sells 8 paintings not at auction for £8,000 a piece, and sells 4 paintings at auction for a total of £32,000, how much does the broker earn in total?

(a) 10,200

(b) 11,400

(c) 12,600

(d) 13,800
Answer:

987.

A bamboo shoot grows at a rate of 95cm per day under optimum circumstances. If a bamboo field contains 1,500 bamboo shoots, how much additional length would be gained in total over a week under optimum circumstances?

(a) 987,500

(b) 997,500

(c) 107,500

(d) 117,500
Answer:

988. A tea expert claims that he can easily find out whether milk or tea leaves were added first to water just by tasting the cup of tea. In order to check this claims 10 cups of tea are prepared, 5 in one way and 5 in other. Find the different possible ways of presenting these 10 cups to the expert

(a) 252

(b) 240

(c) 300

(d) 340
Answer:

989. have an amount of Rs 10 lakh, which I went to invest in stocks of some companies. I always invest only amounts that are multiples of Rs 1 lakh in the

stock of any company. If I can choose from among the stocks of five different companies, In how many ways can I invest the entire amount that I have?

(a) 252

(b) 250

(c) 1001

(d) 1089
Answer:

990. This is data supplied by the cabbage growers union report for 2007: 80% of cabbages collected were heavy (over 0.5 kg), 10% of cabbages were green, 60% were red and 50% were big (having a diameter of over 10 cm). Which of the following statements must be false?

(a) All red cabbages weren't big

(b) 30% of red cabbages were big

(c) There were no cabbages that were both green and big

(d) Half of the cabbages were small
Answer:

991. How many 4-letter words with or without meaning, can be formed out of the letters of the word, 'LOGARITHMS', if repetition of letters is not allowed?

(a) 40

(b) 400

(c) 5040

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(d) 2520
Answer:

992. P can complete a work in 12 days working 8 hours a day,Q can complete the same work in 8 days working 10 hours a day. If both P and Q work together, working 8 hours a day, in how many days can they complete the work?

(a) 5x5/11

(b) 5x6/11

(c) 6x5/11

(d) 6x6/11
Answer:

993. A, B, and C can complete a piece of work in 24,6 and 12 days respectively. Working together , they will complete the same work in

(a) 1/24 day

(b) 7/24 day

(c) 3x3/7 days

(d) 4 days
Answer:

994. A man walking at the rate of 5 km/hr crosses a bridge in 15 minutes. The length of the bridge (in metres) is

(a) 600

(b) 750

(c) 1000

(d) 1250
Answer:

995. A man invested Rs. 1552 in a stock at 97 to obtain an income of Rs. 128. The dividend from the stock is

(a) 7.5%

(b) 8%

(c) 9.7%

(d) 10%
Answer:

996. The cost price of a Rs. 100 stock at 4 discount, when brokerage is 1/4% is

(a) Rs. 95.75

(b) Rs. 96

(c) Rs. 96.25

(d) Rs. 104.25
Answer:

997. The cash realised on selling a 14% stock is Rs.106.25, brokerage being 1/4% is

(a) Rs. 105.50

(b) Rs. 105.90

(c) Rs. 106

(d) Rs. 113.75

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Answer:

998. On a sports day, if 30 children were made to stand in a column, then 16 columns could be formed. If 24 children were to stand in a column, then how many columns could be formed?

(a) 20

(b) 22

(c) 29

(d) 452
Answer:

999. How may pieces of 85cm length can be cut from a rod 42.5 metres long?

(a) 30

(b) 40

(c) 60

(d) None of these
Answer:

1000. What fraction of an hour is a second?

(a) 1 / 24

(b) 1 / 60

(c) 1 / 120

(d) 1 / 3600
Answer:

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1001. In a garden there are 10 rows and 12 columns of mango trees. The distance between the two trees is 2 metres and a distance of one metre is left from all sides of the boundary of the garden. The length of the garden is

(a) 20 m

(b) 22 m

(c) 24 m

(d) 26 m
Answer:

1002. A boy was asked to multiply a number by 25. He instead multiplied the next number by 52 and got the answers 324 more than the correct answer. The number to be multiplied was

(a) 10

(b) 12

(c) 15

(d) 25
Answer:

1003. At what percent per annum will a sum of money double in 16 years?

(a) 6x1/4%

(b) 5x3/2%

(c) 7x2/3%

(d) None of these

Answer:

1004. A circular well with a diameter of 2 metres , is dug to a depth of 14 metres. What is the volume of the earth dug out?

(a) 32 m^3

(b) 36 m^3

(c) 40 m^3

(d) 44 m^3
Answer:

1005. A hollow iron pipe is 21 cm long and its external diameter is 8 cm. If the thickness of the pipe is 1 cm and iron weighs 8 g/cm3, then the weight of the pipe is

(a) 3.6 kg

(b) 3.696 kg

(c) 36 kg

(d) 36.9 kg
Answer:

1006. Two dice are thrown simultaneously. What is the probability of getting two numbers whose product is even?

(a) 1/2

(b) 3/4

(c) 3/8

(d) 5/16
Answer:

1007. In a class, there are 15 boys and 10 girls. Three students are selected at random. The probability that 1 girl and 2 boys are selected, is

(a) 21/46

(b) 25/117

(c) 1/50

(d) 3/25
Answer:

1008. A boat can travel with a speed of 13 km/hr in still water. If the speed of the stream is 4 km/hr, find the time taken by the boat to go 68 km downstream

(a) 2 hours

(b) 3 hours

(c) 4 hours

(d) 5 hours
Answer:

1009. 3 pumps, working 8 hours a day, can empty a tank in 2 days. How many hours a day must 4 pumps work to empty the tank in 1 day?

(a) 9

(b) 10

(c) 11

(d) 12
Answer:

1010. Look carefully for the pattern, and then choose which pair of numbers comes next

9 16 23 30 37 44 51 - -

(a) 59 66

(b) 56 62

(c) 58 66

(d) 58 65
Answer:

1011. Look carefully for the pattern, and then choose which pair of numbers comes next

2 8 14 20 26 32 38 - -

(a) 2 46

(b) 44 50

(c) 42 48

(d) 40 42
Answer:

1012. A metallic sheet is of rectangular shape with dimensions 48 m x 36 m. From each of its corners, a square is cut off so as to make an open box. If the length of the square is 8 m, the volume of the box (in m^3) is

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(a) 3220

(b) 4830

(c) 5120

(d) 6420
Answer:

1013. Spheres A and B have their radil 40 cm and 10 cm respectively. The ratio of the surface area of A to the surface area of B is

(a) 1 : 4

(b) 1 : 16

(c) 4 : 1

(d) 16 : 1
Answer:

1014. How many cubes of 10 cm edge can be put in a cubical box of 1 m edge?

(a) 10

(b) 100

(c) 1000

(d) 10000
Answer:

1015. In a lottery, there are 10 prizes and 25 blanks. A lottery is drawn at random. What is the probability of getting a prize?

(a) 1/10

(b) 2/5

(c) 2/7

(d) 5/7
Answer:

1016. From a pack of 52 cards, two cards are drawn together at random. What is the probability of both the cards being kings?

(a) 1/15

(b) 25/57

(c) 35/256

(d) 1/221
Answer:

1017. A man's speed with the current is 15 km/hr and the speed of the current is 2.5 km/hr. The man's speed against the current is

(a) 8.5 km/hr

(b) 9 km/hr

(c) 10 km/hr

(d) 12.5 km/hr
Answer:

1018. Running at the same constant rate, 6 identical machines can produce a total of 270 bottles per minute. At this rate, how many bottles could 10 such machines produce in 4 minutes?

(a) 648

(b) 1800

(c) 2700

(d) 10800
Answer:

1019. Two dice are tossed. The probability that the total score is a prime number is

(a) 1/6

(b) 5/12

(c) 1/2

(d) 7/9
Answer:

1020. A card is drawn from a pack of 52 cards. The probability of getting a queen of club or a king of heart is

(a) 1/13

(b) 2/13

(c) 1/26

(d) 1/52
Answer:

1021. Statements: In a one day cricket match, the total runs made by a team were 200. Out of these 160 runs were made by spinners.

Conclusions:

1. 80% of the team consists of spinners
2. The opening batsmen were spinners

(a) Only conclusion I follows

(b) Only conclusion II follows

(c) Either I or II follows

(d) Neither I nor II follows
Answer:

1022. Statements: The old order changed yielding place to new

Conclusions:

1. Change is the law of nature
2. Discard old ideas because they are old

(a) Only conclusion I follows

(b) Only conclusion II follows

(c) Either I or II follows

(d) Neither I nor II follows
Answer:

1023. A boat running upstream takes 8 hours 48 minutes to cover a certain distance, while it takes 4 hours to cover the same distance running downstream. What is the ratio between the speed of the boat and speed of the water current respectively?

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(a) 2 : 1

(b) 3 : 2

(c) 8 : 3

(d) Cannot be determined
Answer:

1024. A fort had provision of food for 150 men for 45 days. After 10 days, 25 men left the fort. The number of days for which the remaining food will last, is

(a) 29.5

(b) 37.25

(c) 42

(d) 54
Answer:

1025. A bag contains 4 white, 5 red and 6 blue balls. Three balls are drawn at random from the bag. The probability that all of them are red, is

(a) 1/22

(b) 3/22

(c) 2/91

(d) 2/77
Answer:

1026. Two cards are drawn together from a pack of 52 cards. The probability that one is a spade and one is a heart, is

(a) 3/20

(b) 29/34

(c) 47/100

(d) 13/102
Answer:

1027. A motorboat, whose speed in 15 km/hr in still water goes 30 km downstream and comes back in a total of 4 hours 30 minutes. The speed of the stream (in km/hr) is

(a) 4

(b) 5

(c) 6

(d) 10
Answer:

1028. 39 persons can repair a road in 12 days, working 5 hours a day. In how many days will 30 persons, working 6 hours a day, complete the work?

(a) 10

(b) 13

(c) 14

(d) 15
Answer:

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1029. One card is drawn at random from a pack of 52 cards. What is the probability that the card drawn is a face card (Jack, Queen and King only)?

(a) 1/13

(b) 3/13

(c) 1/4

(d) 9/52
Answer:

1030. A bag contains 6 black and 8 white balls. One ball is drawn at random. What is the probability that the ball drawn is white?

(a) 3/4

(b) 4/7

(c) 1/8

(d) 3/7
Answer:

1031. In one hour, a boat goes 11 km/hr along the stream and 5 km/hr against the stream. The speed of the boat in still water (in km/hr) is

(a) 3 km/hr

(b) 5 km/hr

(c) 8 km/hr

(d) 9 km/hr
Answer:

1032. A man completes 5/8 of a job in 10 days. At this rate, how many more days will it takes him to finish the job?
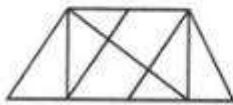
(a) 5

(b) 6

(c) 7

(d) 7.5
Answer:

1033.

Find the number of triangles in the given figure.
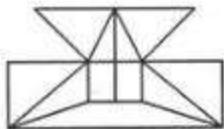

(a) 8

(b) 10

(c) 12

(d) 14
Answer:

1034.

Find the minimum number of straight lines required to make the given figure.

(a) 16

(b) 17

(c) 18

(d) 19
Answer:

1035.

Find the number of triangles in the given figure.

(a) 22

(b) 24

(c) 26

(d) 28
Answer:

1036.

Find the number of triangles in the given figure.

(a) 12

(b) 18

(c) 22

(d) 26
Answer:

1037.

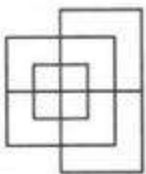Find the number of triangles in the given figure.

(a) 18

(b) 20

(c) 24

(d) 27
Answer:

1038.

Find the minimum number of straight lines required to make the given figure.

(a) 13

(b) 15

(c) 17

(d) 19
Answer:

1039. A boat running downstream covers a distance of 16 km in 2 hours while for covering the same distance upstream, it takes 4 hours. What is the speed of the boat in still water?

(a) 4 km/hr

(b) 6 km/hr

(c) 8 km/hr

(d) Data inadequate
Answer:

1040. In a dairy farm, 40 cows eat 40 bags of husk in 40 days. In how many days one cow will eat one bag of husk?

(a) 1

(b) 1/40

(c) 40

(d) 80
Answer:

1041. Two ships are sailing in the sea on the two sides of a lighthouse. The angle of elevation of the top of the lighthouse is observed from the ships are 30º and 45º respectively. If the lighthouse is 100 m high, the distance between the two ships is

(a) 173 m

(b) 200 m

(c) 273 m

(d) 300 m
Answer:

1042. A man standing at a point P is watching the top of a tower, which makes an angle of elevation of 30º with the man's eye. The man walks some distance towards the tower to watch its top and the angle of the elevation becomes 60º. What is the distance between the base of the tower and the point P?

(a) 4√3 units

(b) 8 units

(c) 12 units

(d) Data inadequate
Answer:

1043. A family consists of two grandparents, two parents and three grandchildren. The average age of the grandparents is 67 years, that of the parents is 35 years and that of the grandchildren is 6 years. What is the average age of the family?

(a) 28 4/7

(b) 31 5/7

(c) 32 1/7

(d) None of these
Answer:

1044. A grocer has a sales of Euro 6435, Euro 6927, Euro 6855, Euro 7230 and Euro 6562 for 5 consecutive months. How much sale must he have in the sixth month so that he gets an average sale of Euro 6500?

(a) Euro 4991

(b) Euro 5991

(c) Euro 6001

(d) Euro 6991
Answer:

1045. Two students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are

(a) 39, 30

(b) 41, 32

(c) 42, 33

(d) 43, 34
Answer:

1046. A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had

(a) 588 apples

(b) 600 apples

(c) 672 apples

(d) 700 apples
Answer:

1047. The speed of a boat in still water in 15 km/hr and the rate of current is 3 km/hr. The distance travelled downstream in 12 minutes is

(a) 1.2 km

(b) 1.8 km

(c) 2.4 km

(d) 3.6 km
Answer:

1048. A wheel that has 6 cogs is meshed with a larger wheel of 14 cogs. When the smaller wheel has made 21 revolutions, then the number of revolutions mad by the larger wheel is

(a) 4

(b) 9

(c) 12

(d) 49
Answer:

1049. What percentage of numbers from 1 to 70 have 1 or 9 in the unit's digit?

(a) 1

(b) 14

(c) 20

(d) 21
Answer:

1050. If A = x% of y and B = y% of x, then which of the following is true?

(a) A is smaller than B

(b) A is greater than B

(c) Relationship between A and B cannot be determined

(d) None of these
Answer:

1051. The average of 20 numbers is zero. Of them, at the most, how many may be greater than zero?

(a) 0

(b) 1

(c) 10

(d) 19
Answer:

1052. he average weight of 8 person's increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. What might be the weight of the new person?

(a) 76 kg

(b) 76.5 kg

(c) 85 kg

(d) Data inadequate
Answer:

1053. The angle of elevation of a ladder leaning against a wall is 60º and the foot of the ladder is 4.6 m away from the wall. The length of the ladder is

(a) 2.3 m

(b) 4.6 m

(c) 7.8 m

(d) 9.2 m
Answer:

1054. An observer 1.6 m tall is 20√3 away from a tower. The angle of elevation from his eye to the top of the tower is 30º. The heights of the tower is

(a) 21.6 m

(b) 23.2 m

(c) 24.72 m

(d) None of these
Answer:

1055. A and B together have Sterling 1210. If 4/15 of A's amount is equal to 2/5 of B's amount, how much amount does B have?

(a) Sterling 460

(b) Sterling 484

(c) Sterling 550

(d) Sterling 664
Answer:

1056. Two numbers are respectively 20% and 50% more than a third number. The ratio of the two numbers is

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(a) 2 : 5

(b) 3 : 5

(c) 4 : 5

(d) 6 : 7
Answer:

1057. A sum of money is to be distributed among A, B, C, D in the proportion of 5 : 2 : 4 : 3. If C gets Euro 1000 more than D, what is B's share?
(a) Euro 500

(b) Euro 1500

(c) Euro 2000

(d) None of these
Answer:

1058. Seats for Mathematics, Physics and Biology in a school are in the ratio 5 : 7 : 8. There is a proposal to increase these seats by 40%, 50% and 75% respectively. What will be the ratio of increased seats?

(a) 2 : 3 : 4

(b) 6 : 7 : 8

(c) 6 : 8 : 9

(d) None of these
Answer:

1059. In a mixture 60 litres, the ratio of milk and water 2 : 1. If the this ratio is to be 1 : 2, then the quantity of water to be further added is

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(a) 20 litres

(b) 30 litres

(c) 40 litres

(d) 60 litres
Answer:

1060. The ratio of the number of boys and girls in a college is 7 : 8. If the percentage increase in the number of boys and girls be 20% and 10% respectively, what will be the new ratio?

(a) 8 : 9

(b) 17 : 18

(c) 21 : 22

(d) Cannot be determined
Answer:

1061. The sum of three numbers is 98. If the ratio of the first to second is 2 :3 and that of the second to the third is 5 : 8, then the second number is
(a) 20

(b) 30

(c) 48

(d) 58
Answer:

1062. The salaries A, B, C are in the ratio 2 : 3 : 5. If the increments of 15%, 10% and 20% are allowed respectively in their salaries, then what will be new ratio of their salaries?

(a) 3 : 3 : 10

(b) 10 : 11 : 20

(c) 23 : 33 : 60

(d) Cannot be determined
Answer:

1063. A boat takes 90 minutes less to travel 36 miles downstream than to travel the same distance upstream. If the speed of the boat in still water is 10 mph, the speed of the stream is

(a) 2 mph

(b) 2.5 mph

(c) 3 mph

(d) 4 mph
Answer:

1064. If 7 spiders make 7 webs in 7 days, then 1 spider will make 1 web in how many days?

(a) 1

(b) 7/2

(c) 7

(d) 49
Answer:

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1065. From a point P on a level ground, the angle of elevation of the top tower is 30º. If the tower is 100 m high, the distance of point P from the foot of the tower is

(a) 149 m

(b) 156 m

(c) 173 m

(d) 200 m
Answer:

1066. The captain of a cricket team of 11 members is 26 years old and the wicket keeper is 3 years older. If the ages of these two are excluded, the average age of the remaining players is one year less than the average age of the whole team. What is the average age of the team?

(a) 23 years

(b) 24 years

(c) 25 years

(d) None of these
Answer:

1067. In a certain school, 20% of students are below 8 years of age. The number of students above 8 years of age is 2/3 of the number of students of 8 years of age which is 48. What is the total number of students in the school?

(a) 72

(b) 80

(c) 120

(d) 100
Answer:

1068. The angle of elevation of the sun, when the length of the shadow of a tree 3 times the height of the tree, is

(a) 30 degrees

(b) 45 degrees

(c) 60 degrees

(d) 90 degrees
Answer:

1069. The average monthly income of P and Q is Dollar 5050. The average monthly income of Q and R is Dollar 6250 and the average monthly income of P and R is Dollar 5200. The monthly income of P is

(a) Dollar 3500

(b) Dollar 4000

(c) Dollar 4050

(d) Dollar 5000
Answer:

1070. A student multiplied a number by 3/5 instead of 5/3. What is the percentage error in the calculation?

(a) 34%

(b) 44%

(c) 54%

(d) 64%
Answer:

1071. A man took loan from a bank at the rate of 12% p.a. simple interest. After 3 years he had to pay Dollar 5400 interest only for the period. The principal amount borrowed by him was

(a) Dollar 2000

(b) Dollar 10,000

(c) Dollar 15,000

(d) Dollar 20,000
Answer:

1072. If 40% of a number is equal to two-third of another number, what is the ratio of first number to the second number?

(a) 2 : 5

(b) 3 : 7

(c) 5 : 3

(d) 7 : 3
Answer:

1073. Two number are in the ratio 3 : 5. If 9 is subtracted from each, the new numbers are in the ratio 12 : 23. The smaller number is

(a) 27

(b) 33

(c) 49

(d) 55
Answer:

1074. What least number must be added to 1056, so that the sum is completely divisible by 23 ?

(a) 2

(b) 3

(c) 18

(d) 21
Answer:

1075. The sum of first five prime numbers is

(a) 11

(b) 18

(c) 26

(d) 28
Answer:

1076. The difference of two numbers is 1365. On dividing the larger number by the smaller, we get 6 as quotient and the 15 as remainder. What is the smaller number?

(a) 240

(b) 270

(c) 295

(d) 360
Answer:

1077. The smallest 3 digit prime number is

(a) 103

(b) 107

(c) 113

(d) None of these
Answer:

1078. Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?

(a) 1/2

(b) 2/5

(c) 8/15

(d) 9/20
Answer:

1079. A bag contains 2 red, 3 green and 2 blue balls. Two balls are drawn at random. What is the probability that none of the balls drawn is blue?

(a) 10/21

(b) 11/21

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(c) 2/7

(d) 5/7
Answer:

1080. A man can row at 5 kmph in still water. If the velocity of current is 1 kmph and it takes him 1 hour to row to a place and come back, how far is the place?

(a) 2.4 km

(b) 2.5 km

(c) 3 km

(d) 3.6 km
Answer:

1081. A flagstaff 17.5 m high casts a shadow of length 40.25 m. The height of the building, which casts a shadow of length 28.75 m under similar conditions will be

(a) 10 m

(b) 12.5 m

(c) 17.5 m

(d) 21.25 m
Answer:

1082. In an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was

(a) 2700

(b) 2900

(c) 3000

(d) 3100
Answer:

1083. Three candidates contested an election and received 1136, 7636 and 11628 votes respectively. What percentage of the total votes did the winning candidate get?

(a) 57%

(b) 60%

(c) 65%

(d) 90%
Answer:

1084. The average age of husband, wife and their child 3 years ago was 27 years and that of wife and the child 5 years ago was 20 years. The present age of the husband is

(a) 35 years

(b) 40 years

(c) 50 years

(d) None of these
Answer:

1085. A car owner buys petrol at Euro 7.50, Euro 8 and Euro 8.50 per litre for three successive years. What approximately is the average cost per litre of petrol if he spends Euro 4000 each year?

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(a) Euro 7.98

(b) Euro 8

(c) Euro 8.50

(d) Euro 9
Answer:

1086. A certain amount earns simple interest of 1750 after 7 years. Had the interest been 2% more, how much more interest would it have earned?

(a) 35

(b) 245

(c) 350

(d) Cannot be determined
Answer:

1087. In a box, there are 8 red, 7 blue and 6 green balls. One ball is picked up randomly. What is the probability that it is neither red nor green?

(a) 1/3

(b) 3/4

(c) 7/19

(d) 8/21
Answer:

1088. What is the probability of getting a sum 9 from two throws of a dice?

(a) 1/6

(b) 1/8

(c) 1/9

(d) 1/12
Answer:

1089. A boat covers a certain distance downstream in 1 hour, while it comes back in 1 hours. If the speed of the stream be 3 kmph, what is the speed of the boat in still water?

(a) 12 kmph

(b) 13 kmph

(c) 14 kmph

(d) 15 kmph
Answer:

1090. In a camp, there is a meal for 120 men or 200 children. If 150 children have taken the meal, how many men will be catered to with remaining meal?

(a) 20

(b) 30

(c) 40

(d) 50
Answer:

1091. In Jessica's opinion, her weight is greater than 65 kg but less than 72 kg. Her brother doest not agree with Jessica and he thinks that Jessica's weight is greater

than 60 kg but less than 70 kg. Her mother's view is that her weight cannot be greater than 68 kg. If all are them are correct in their estimation, what is the average of different probable weights of Jessica?

(a) 67 kg

(b) 68 kg

(c) 69 kg

(d) Data inadequate
Answer:

1092. The average weight of A, B and C is 45 kg. If the average weight of A and B be 40 kg and that of B and C be 43 kg, then the weight of B is

(a) 17 kg

(b) 20 kg

(c) 26 kg

(d) 31 kg
Answer:

1093. Helen went to the stationers and bought things worth Euro 25, out of which 30 paise went on sales tax on taxable purchases. If the tax rate was 6%, then what was the cost of the tax free items?

(a) Euro 15

(b) Euro 15.7

(c) Euro 19.7

(d) Euro 20

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Answer:

1094. The population of a town increased from 1,75,000 to 2,62,500 in a decade. The average percent increase of population per year is

(a) 4.37%

(b) 5%

(c) 6%

(d) 8.75%
Answer:

1095. What will be the ratio of simple interest earned by certain amount at the same rate of interest for 6 years and that for 9 years?

(a) 1 : 3

(b) 1 : 4

(c) 2 : 3

(d) Data inadequate
Answer:

1096. Three unbiased coins are tossed. What is the probability of getting at most two heads?

(a) 3/4

(b) 1/4

(c) 3/8

(d) 7/8

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Answer:

1097. A boatman goes 2 km against the current of the stream in 1 hour and goes 1 km along the current in 10 minutes. How long will it take to go 5 km in stationary water?

(a) 40 minutes

(b) 1 hour

(c) 1 hr 15 min

(d) 1 hr 30 min
Answer:

1098. An industrial loom weaves 0.128 metres of cloth every second. Approximately, how many seconds will it take for the loom to weave 25 metres of cloth?

(a) 178

(b) 195

(c) 204

(d) 488
Answer:

1099. A sum of money amounts to 9800 after 5 years and 12005 after 8 years at the same rate of simple interest. The rate of interest per annum is

(a) 5%

(b) 8%

(c) 12%

(d) 15%
Answer:

1100. A boy started from his home. After walking for 5 km towards east, he turned to his right and walked for 8 km. Then he again turned to his right and walked for 10 km.. In which direction was he from his house?

(a) West

(b) South-West

(c) North

(d) North-West
Answer:

1101. A man can row three-quarters of a kilometre against the stream in 11 1/4 minutes and down the stream in 7 1/2 minutes. The speed (in km/hr) of the man in still water is

(a) 2

(b) 3

(c) 4

(d) 5
Answer:

1102. 36 men can complete a piece of work in 18 days. In how many days will 27 men complete the same work?

(a) 12

(b) 24

(c) 22

(d) None of these
Answer:

1103. A sum of 725 is lent in the beginning of a year at a certain rate of interest. After 8 months, a sum of 362.50 more is lent but at the rate twice the former. At the end of the year, 33.50 is earned as interest from both the loans. What was the original rate of interest?

(a) 3.6%

(b) 4.5%

(c) 5%

(d) None of these
Answer:

1104. Speed of a boat in standing water is 9 kmph and the speed of the stream is 1.5 kmph. A man rows to a place at a distance of 105 km and comes back to the starting point. The total time taken by him is

(a) 16 hours

(b) 18 hours

(c) 20 hours

(d) 24 hours
Answer:

1105. 4 mat-weavers can weave 4 mats in 4 days. At the same rate, how many mats would be woven by 8 mat-weavers in 8 days?

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(a) 4

(b) 8

(c) 12

(d) 16
Answer:

1106. An automobile financier claims to be lending money at simple interest, but he includes the interest every six months for calculating the principal. If he is charging an interest of 10%, the effective rate of interest becomes

(a) 10%

(b) 10.25%

(c) 10.5%

(d) None of these
Answer:

1107. A man takes twice as long to row a distance against the stream as to row the same distance in favour of the stream. The ratio of the speed of the boat (in still water) and the stream is

(a) 2 : 1

(b) 3 : 1

(c) 3 : 2

(d) 4 : 3
Answer:

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1108. A person takes a loan of 200 at 5% simple interest. He returns 100 at the end of 1 year. In order to clear his dues at the end of 2 years, he would pay

(a) 105

(b) 110

(c) 115

(d) 115.50
Answer:

1109. A man rows to a place 48 km distant and come back in 14 hours. He finds that he can row 4 km with the stream in the same time as 3 km against the stream. The rate of the stream is

(a) 1 km/hr

(b) 1.5 km/hr

(c) 2 km/hr

(d) 2.5 km/h
Answer:

1110. Reena took a loan of 1200 with simple interest for as many years as the rate of interest. If she paid 432 as interest at the end of the loan period, what was the rate of interest?

(a) 3.6

(b) 6

(c) 18

(d) Cannot be determined

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Answer:

1111. A sum of 12,500 amounts to 15,500 in 4 years at the rate of simple interest. What is the rate of interest?

(a) 3%

(b) 4%

(c) 6%

(d) None of these
Answer:

1112. How much time will it take for an amount of 450 to yield 81 as interest at 4.5% per annum of simple interest?

(a) 3.5 years

(b) 4 years

(c) 4.5 years

(d) 5 years
Answer:

1113. Rakesh walks 75 metres towards South. Then he turns to his left and walks 60 metres. He then turns to his left and walks 75 metres. He again turns to his right and wlaks 45 metres. At what distance is he from the starting point and in which direction?

(a) 30 metres East

(b) 30 metres West

(c) 30 metres North

(d) 105 metres West
Answer:

1114. Riti is facing South. She turns right and walks 10 m. Then she turns right again and walks 5 m. Then she turns left and walks 5 m and then turning right walks 10 m. Then she turns right again and walks 30 m. In which direction is she from the starting point?

(a) North-west

(b) North-east

(c) North

(d) East
Answer:

1115. A squirrel runs 40 cm towards East and turns to right, runs 20 cm and turns to right, runs 18 cm and again turns to left 10 cm and then turns to left, runs 24 cm and finally turns to left and runs 12 cm. Now which direction is the squirrel facing?
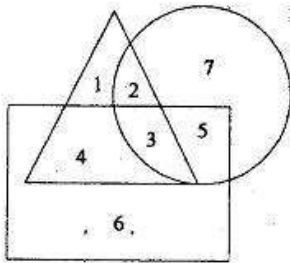
(a) South

(b) East

(c) West

(d) North
Answer:

1116. In the figure given below, triangle represents the urban, rectangle represents the hard-working and circle represents the educated people. Find out

the region of the figure which represents the educated people who are urban but not hard-working?

(a) 2

(b) 7

(c) 1

(d) 3
Answer:

1117. A sum fetched a total simple interest of 4016.25 at the rate of 9 %.p.a. in 5 years. What is the sum?

(a) 4462.50

(b) 8032.50

(c) 8925

(d) None of these
Answer:

1118. Sunita walks 60 metres towards North. She then turns left and walks 120 metres. She again turns left and walks 60 metres. Further, she moves 60 metres after turning to right. How far is she from her original position?

(a) 90 metres

(b) 150 metres

(c) 180 metres

(d) 60 metres
Answer:

1119. Subham walks 20 kilometres towards North. From there, he walks 12 kilometres towards South. Then, he walks 6 kilometres towards East. How far and in which direction is he with reference to his starting point?
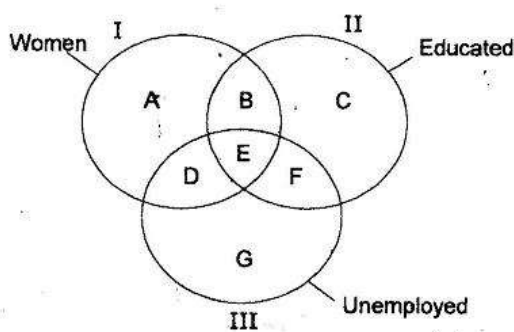
(a) 10 kilometres North-east

(b) 14 kilometres West

(c) 10 kilometres West

(d) 13 kilometres east
Answer:

1120. Study the diagram below and identify the region representing women who are educated but not unemployed

(a) A, D, G

(b) B only

(c) D, E, F

(d) D, G
Answer:

1121. Mr. Thomas invested an amount of 13,900 divided in two different schemes A and B at the simple interest rate of 14% p.a. and 11% p.a. respectively. If the total amount of simple interest earned in 2 years be 3508, what was the amount invested in Scheme B?

(a) 6400

(b) 6500

(c) 7200

(d) 7500
Answer:

1122. Gunjan went 30 kms to the North from her house. Then she turned West and covered 20 kms. Then, she turned South and covered 10 kms. Finally, turning to East, she covered 20 kms. In which directionis is she from her house?

(a) South

(b) East

(c) West

(d) North
Answer:

1123. Raman is facing north-west. He turns 90o in the clockwise direction and then 135o in the anticlockwise direction. Which direction is he facing now?
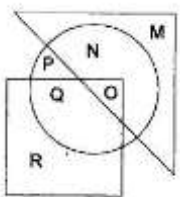
(a) South

(b) East

(c) West

(d) North
Answer:

1124. Which one of the following statements is correct with regard to the given figure?

(a) Only O is in all the three shapes

(b) M, N, P, O, Q are in all the three shapes

(c) Q and O are in all the three shapes

(d) R, Q, O, N are in all the three shapes
Answer:

1125. A sum of money at simple interest amounts to 815 in 3 years and to 854 in 4 years. The sum is

(a) 650

(b) 690

(c) 698

(d) 700
Answer:

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1126. Sumeet is facing north-west. He turns 90o in the clockwise direction, then 180o in the anticlockwise direction and then another 90o in the same direction. Which direction is he facing now?

(a) South-east

(b) South

(c) South-west

(d) West
Answer:

1127. Monu is looking for his father. He went 18 metres in the East before turning to his right. He went 4 metres before turning to his right again to look for his father at his uncle's place 6 metres from this point. His fathre was not there. From here he went 20 metres to the North before meeting his father in a street. How far did the son meet his father from the starting point?

(a) 20 metres

(b) 22 metres

(c) 46 metres

(d) 10 metres
Answer: