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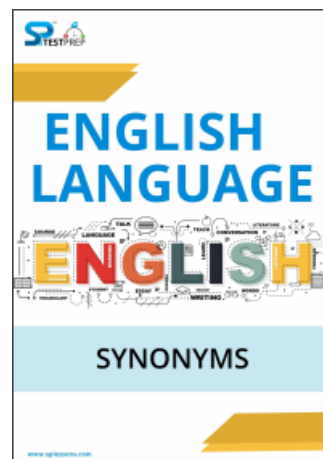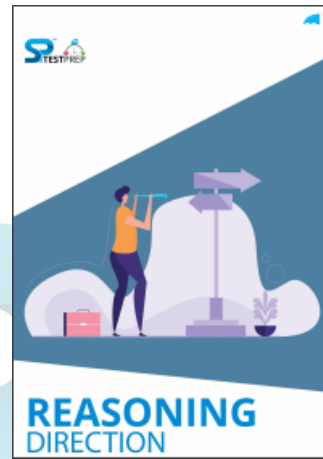**EBooks for Bank Exams, SSC & Railways 2020**
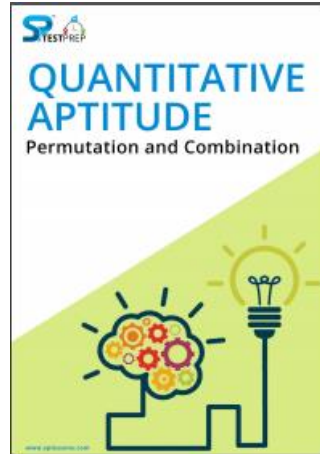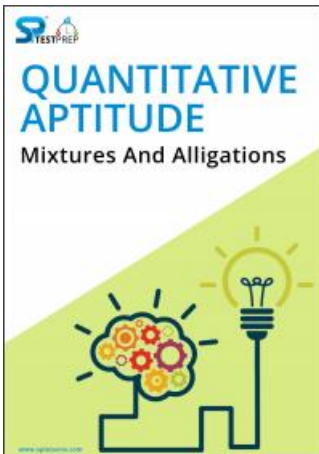**General Awareness EBooks**

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1. 617 + 6.017 + 0.617 + 6.0017 =?

    A. 6.2963
    B. 62.965
    C. 629.6357
    D. None of these

Answer: C

Explanation:

```
  617.00

    6.017

    0.617

  + 6.0017

  --------

  629.6357

  ---------
```

2. 0.002 x 0.5 =?

    A. 0.0001
    B. 0.001
    C. 0.01
    D. 0.1

Answer: B

Explanation:

2 x 5 = 10.

Sum of decimal places = 4

0.002 x 0.5 = 0.001

3. In triangle PQR, S and T are midpoints of sides PR and PQ respectively. The medians QS and RT intersect at U. Then area PQU: area PQR is

    A. 1 : 3

B. 1: 4.
C. 1 : 5
D. 2 : 5

Answer: a

Explanation: The intersection of the 3 medians trisects each other.

So the height will be 1 / 3rd the height of the triangle.

The base of the two triangles is the same, so the ratio of the areas depends on the ratio of the heights = 1: 3

4. The number 0.127 is how much greater than $\frac{1}{8}$?

A. $\frac{1}{100}$

B. $\frac{1}{1500}$

C. $\frac{1}{2}$

D. $\frac{1}{500}$

Answer: D

Explanation: 0.127 expressed as a fraction = $\frac{127}{1000}$

= $\frac{1}{8}$ can also be expressed as $\frac{(1 \times 125)}{(8 \times 125)}$ = $\frac{125}{1000}$

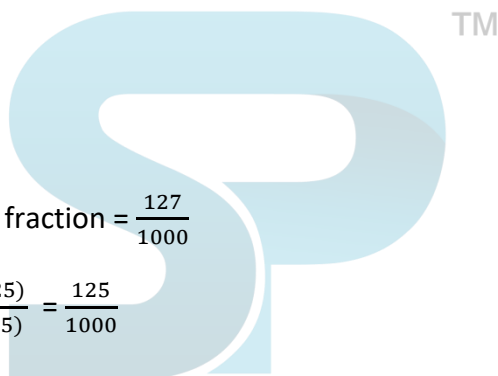The difference is $\frac{2}{1500}$ which is $\frac{1}{500}$

5. What is the sum of angles of quadrilaterals?

A. 90
B. 180
C. 360
D. 270

Answer:c

6. Rajeev buys good worth Rs. 6650. He gets a rebate of 6% on it. After getting the rebate, he pays sales tax @ 10%. Find the amount he will have to pay for the goods.

A. Rs. 6876.10
B. Rs. 6999.20
C. Rs. 6654

D. Rs. 7000

Answer: A

Explanation:

Rebate = 6% of Rs. 6650 = Rs($\frac{6}{100}$x 6650) = Rs. 399.

Sales tax = 10% of Rs. (6650 - 399) = Rs.($\frac{10}{100}$x 6251) = Rs. 625.10

Final amount = Rs. (6251 + 625.10) = Rs. 6876.10

7. The plane with six edges as its sides is called

- **A.** quadrilateral
- **B.** pentagon
- **C.** hexagon
- **D.** octagon

Answer: C

8. In a college, the ratio of the number of boys to girls is 8 : 5. If there are 160 girls, the total number of students in the college is

- **A.** 100
- **B.** 250
- **C.** 260
- **D.** 416

Answer: D

Explanation: Let the number of boys and girls be 8x and 5x.

Total number of students = 13x = 13 × 32 = 416

9. A group of students decided to collect as many paise from each member of group as is the number of members. If the total collection amounts to Rs. 59.29, the number of the member is the group is:

- **A.** 57
- **B.** 67
- **C.** 77
- **D.** 87

Answer: C

Explanation:

Money collected

= (59.29 x 100) paise

= 5929 paise.

Number of members

= sqrt (5929)

= 77.

10. A triangular prism has two triangular bases that both have an area of 19 square units. The prism has a height of 8 units. What is the volume of the prism?

    A. 604 cubic units
    B. 76 cubic units
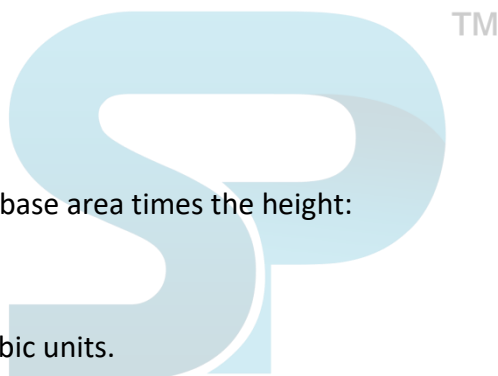   **C.** 27 cubic units
    D. 152 cubic units

Answer: D

Explanation:

The volume of any prism is Bh, or base area times the height:

PRAXIS_3202

The volume of the prism is 152 cubic units.

11. The 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: C

Explanation: Total weight increased = (8 x 2.5) kg = 20 kg.

Weight of new person = (65 + 20) kg = 85 kg.

12. 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. Cannot be determined

Answer: D

Explanation:

We need to know the S.I., principal and time to find the rate.

Since the principal is not given, so data is inadequate.

13. The ratio of the total surface area to lateral surface area of a cylinder, whose radius is 80 cm and height is 20 cm, is:

A. 3 : 1
B. 2 : 1
C. 4 : 1
D. 5 : 1

Answer: D

Explanation: Radius (r) = 80 cm, Height (h) = 20 cm

Total surface area of cylinder = $2πrh+2πr^2=2πr$ (h+r)

= 2πr (80+20)
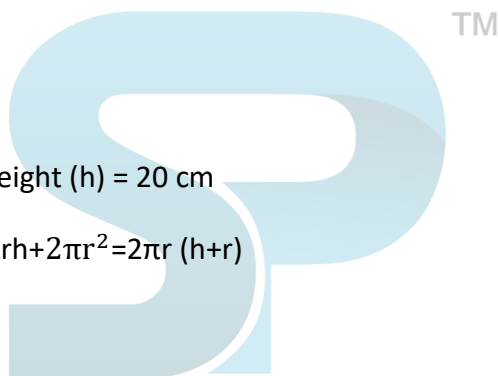
= 2πr (100) sq.cm

Lateral surface area of cylinder = $2πrh=2πr×20=2πr$ (20)

∴ required ratio = 2πr (100):2πr (20)=100:20=5:1

14. A trader sold an article at a loss of 5% but when he increased the selling price by Rs.65 he gained 3.33% on the cost price. If he sells the same article at Rs. 936, what is the profit percentage?

A. 15%
B. 16.66%
C. 20%
D. data insufficient

Answer: C

Explanation: 103.33 CP- 0.95 CP = 65

CP = Rs. 780

profit (%) = $\frac{(936 - 780)}{780}$ x 100 = 20%

15. The radius of sphere is increased by 40 %. The increase in surface area of the sphere is:

    A. 100%
    B. 125%
    C. 96%
    D. 160%

Answer: C

Explanation: Radius of sphere increased by 40 %.

∴ new surface area = 1.4 x 1.4 ⇒ 1.96

% increase in surface area = $(\frac{1.96 - 1}{1})$ x 100 = .96 x 100 = 96%

16. A and B start a business, with A investing the total capital of Rs.50000, on the condition that B pays A interest @ 10% per annum on his half of the capital. A is a working partner and receives Rs.1500 per month from the total profit and any profit remaining is equally shared by both of them. At the end of the year, it was found that the income of A is twice that of B. Find the total profit for the year?

    A. Rs. 39000
    B. Rs. 49000
    C. Rs. 59000
    D. Rs. 69000

Answer: C

Explanation: Interest received by A from B = 10% of half of Rs.50000 = 10% of Rs. 25000 = Rs.2500.

Amount received by A per annum for being a working partner = 1500 x 12 = Rs.18000

Let 'P' be the part of the remaining profit that A receives as his share.

So, total income of A = (Rs.2500 + Rs.18000 + Rs. P)

Total income of B = only his share from the remaining profit = 'P', as A and B share the remaining profit equally.

We know that income of A = Twice the income of B

So, (2500 + 18000 + P) = 2(P)

P = 20500

Thus, the total profit = 2P + Rs.18000

= 2(20500) + 18000 = Rs.59000.

17. A mixture of 150 liters of wine and water contains 20% water. How much more water should be added so that water becomes 25% of the new mixture?

- **A.** 10 liters
- **B.** 20 liters
- **C.** 30 liters
- **D.** 40 liters

Answer: A

Explanation: Number of liters of water in 125 liters of the mixture = 20% of 150 = $\frac{1}{5}$ of 150 = 30 liters

Let us assume that another 'P' liters of water are added to the mixture to make water 25% of the new mixture. So, the total amount of water becomes (30 + P) and the total volume of the mixture becomes (150 + P)

Thus, (30 + P) = 25% of (150 + P)

Solving, we get P = 10 liters

18. How much time did X take to reach the destination?

- **I.** The ratio between the speed of X and Y is 3 : 4.
- **II.** Y takes 36 minutes to reach the same destination.
- **A.** I alone sufficient while II alone not sufficient to answer
- **B.** II alone sufficient while I alone not sufficient to answer
- **C.** Either I or II alone sufficient to answer
- **D.** Both I and II are necessary to answer

Answer: E

Explanation:

Since ratio of speed of X : Y is 3 : 4, then ratio of time will be 4 : 3.

I. If Y takes 3 min, then X takes 4 min.

II. If Y takes 36 min, then X takes [$\frac{4}{3}$ x 36 min}= 48 min.

Thus, I and II together give the answer.

19. 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: B

Explanation: Ratio of times taken by Sakshi and Tanya = 125 : 100 = 5 : 4.

Suppose Tanya takes x days to do the work.

5 : 4 :: 20 : x   x = $[\frac{4 \times 20}{5}]$

x = 16 days.

Hence, Tanya takes 16 days to complete the work.

Therefore, Ratio of water and spirit = 1 : 5

20. The more steepness of the angle of straight line depends upon the absolute value which is relatively

A. smaller
B. constant
C. greater
D. variable

Answer: C

21. Out of the following options, the two angles that are together classified as complementary angles are

A. 120° and 60°
B. 50° and 30°
C. 65° and 25°
D. 70° and 30°

Answer: C

22. A flag pole, which is 36.2 ft high, casts a shadow of 5 ft at 11 a.m. The shadow cast by a tower at the same time is 35 ft long. The height of the tower is

A. 153.4 ft
B. 203.4 ft

C. 200 ft
D. 253.4 ft

Answer: D

Explanation:

Height of the tower will be

$\frac{35}{5}$ ×36.2 = 253.4ft

(Height of an object is proportional to its shadow)

23. A man standing at a point P is watching the top of a tower, which makes an angle of elevation of 30° with the man's eye. The man walks some distance towards the tower to watch its top and the angle of the elevation becomes 60°. What is the distance between the base of the tower and the point P?

A. 8 units
B. 12 units
C. Data inadequate
D. None of these

Answer: D
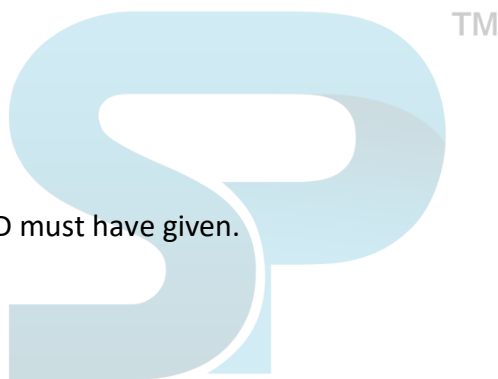
Explanation: One of AB, AD and CD must have given.
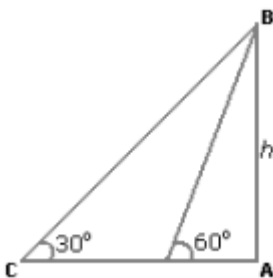
So, the data is inadequate

24. What is the basis for numerous spatial domain processing techniques?

A. Transformations
B. Scaling
C. Histogram
D. None of the Mentioned

Answer: C

Explanation: Histogram is the basis for numerous spatial domain processing techniques.

25. In a cumulative frequency polygon, frequencies are plotted against

- **A.** mid point
- **B.** upper class boundaries
- **C.** class limits
- **D.** frequency distribution

Answer: B

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