

Hexaware Aptitude

1. I make a profit of 20% by selling an article. What would be the profit percent if it were calculated on the selling price instead of the cost price?

- A. 10 %
- B. 20%
- C. 30%
- D. 16.67%

Answer - D. 16.67%

Explanation:

Let us assume

Cost Price = 100

Then 20% of profit means

Selling Price is = 120.

Now, Profit %, if it was calculated on SP, will be

$20/120 \times 100 = 16.67\%$.

2. A shopkeeper purchased some goods for Rs.900 and sold one-third of the goods at a loss of what 12%, then at gain % should the remainder goods, he sold to gain 18% profit on the whole transaction?

- A. 18%
- B. 26%
- C. 31%
- D. 33%

Answer – D. 33%

Explanation:

1/3rd at 12% loss = $900/3 = 300$

As well as 18% of profit on the whole transaction

$300 \times 88/100 = 264$

$900 \times 18/100 = 162$

$\Rightarrow 600 + 162 + 36 = 798$

$198/600 \times 100 = 33\%$.

3. A man went to shop to buy mobile for Rs.3500, the rate of sales tax is 8%. He tell the shopkeeper to reduce the price of mobile to such an extent that has to pay Rs.3500, inclusive of all taxes. Find the reduced price.

- A. Rs.140
- B. Rs.210
- C. Rs.260

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D. Rs.320

Answer – C. Rs.260

Explanation:

Given that the rate of sales tax is 8%

Then, $3500 \times 100 / 108 = 3240$

$3500 - 3240 = 260$.

4. Prasanth bought 20kg of rice at rupees 30 per kg and 40 kg of rice at 35 rupees per kg. Now he sold the entire lot at 45 rupees per kg. Find the amount of loss and profit made by Prasanth.

A. Rs.800

B. Rs.750

C. Rs.700

D. Rs.650

Answer – C. Rs.700

Explanation:

Total cost price = $20 \times 30 + 40 \times 35 = 2000$

Total selling price = $45 \times 60 = 2700$

Hence, Profit made by Prasanth = 700 Rupees.

5. A trader sells two varieties of Rice X and Y. He Mixes 12 Kg of X with 16 kg of Y, and by selling this mixture at price of Y Rice he gets a 20% profit. If the price of X variety Rice is Rs.66 /Kg, then what is the price of Y variety /Kg.

A. Rs.72

B. Rs.84

C. Rs.96

D. Rs.108

Answer – D. Rs.108

Explanation:

$120/100 \times (12 \times 66 + 16B) = 28 \times B$

$Y = 108$

Therefore, the price of Y variety of Rice is Rs. 108 /Kg.

6. Walking at the rate of 4 kmph a man cover a certain distance in 2 hr 45 min. Running at a speed of 16.5 kmph the man will cover the same distance in?

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- A. 10 min
- B. 20 min
- C. 40 min
- D. 60 min

Answer - C. 40 min

Explanation:

Distance = Speed \times time

Here time = 2hr 45 min = $11/4$ hr

Distance = $4 \times 11/4 = 11$ km

New Speed = 16.5 kmph

Therefore time = Distance/Speed = $11/16.5 = 40$ min.

7. Two trains starting at the same time from 2 stations 200 km apart and going in the opposite direction cross each other at a distance of 110 km from one of the stations. What is the ratio of their speeds?

- A. 7: 3
- B. 7: 5
- C. 11: 9
- D. 18:4

Answer - C. 11: 9

Explanation:

By Analyzing the given information

In the same time, they cover 110 km and 90 km respectively.

For the same time, speed and distance are inversely proportional.

So ratio of their speed = 110: 90 = 11: 9.

8. Excluding stoppages, the speed of a bus is 54 kmph and including stoppages, it is 45 kmph. For how many minutes does the bus stop per hour?

- A. 9
- B. 10
- C. 12
- D. 20

Answer - B. 10

Explanation:

Due to stoppages, it covers 9 km less.

Time taken to cover 9 km = $(9/54) \times 60 = 10$

Therefore, the time does the bus stop per hour is 10 mins.

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9. Rishi traveled 1800 kilometer by air which formed $\frac{3}{5}$ of the total journey. He travels $\frac{1}{4}$ of the trip by car and the remaining trip by train. Find the distance traveled by train.

- A. 250 km
- B. 350 km
- C. 450 km
- D. 550 km

Answer – C. 450 km

Explanation:

Given that

$\frac{3}{5}$ of Distance D = 1800.

Hence, the Actual Distance D = 3000 km

$\frac{1}{4}$ of 3000 = 750

Therefore, Distance travelled by train = $3000 - 1800 - 750 = 450$ km

10. Sunaina traveled a distance of 50 km in 7 hrs. She traveled the distance partly on foot at 5 kmph and partly on a bicycle at 8 kmph. What is the distance that she traveled on foot?

- A. 8 km
- B. 5 km
- C. 10 km
- D. 13 km

Answer – C. 10 km

Explanation:

Let us assume the distance that Sunaina traveled on foot = x

Then, $\frac{x}{5} + \frac{50-x}{8} = 7$

$8x + 250 - 5x = 7 \times 40$

$3x + 250 = 280$

$3x = 30$

$x = \frac{30}{3} = 10$ km

11. 30 men can complete a work in 16 days. Six days after they started working, so 20 more men joined them. How many days will they now take to complete the remaining work?

- A. 5 days
- B. 6 days
- C. 8 days

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D. 12 days

Answer - B. 6 days

Explanation:

Let us assume the days taken to complete the remaining work = x.

Then, $30 \times 6 / (6/16) = 50 \times x / (1 - (6/16))$

x = 6 days

12. 10 buckets of water fill a tank when the capacity of each bucket is 14 liter. How many buckets will be needed to fill the same tank, if the capacity of each bucket is 7 liters?

A. 20

B. 18

C. 16

D. 14

Answer – A. 20

Explanation:

Let us assume the Buckets need to fill the tank = x

$10 \times 14 = x \times 7$

$x = 10 \times 14 / 7 = 20$

13. Three pipes of same capacity can fill a tank in 8 hours. If there are only two pipes of the same capacity, the tank can be filled in?

A. 12 hours

B. 16 hours

C. 17 hours

D. 24 hours

Answer - A. 12 hours

Explanation:

Given, The part of the tank filled by three pipes in one hour = $1/8$

Then, The part of the tank filled by two pipes in 1 hour = $2/3 \times 1/8 = 1/12$.

Therefore, The tank can be filled in 12 hours.

14. A pump can fill a tank with water in 2 hours. Because of a leak, it took 2: 20 hours to fill the tank. The leak can drain all the water of the tank in?

A. 4 hrs

B. 7 hrs

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- C. 8 hrs
- D. 14 hrs

Answer - D. 14 hrs

Explanation:

Work done by the tank in 1 hour = $(1/2 - 1/3) = 1/14$

A leak will empty the tank in 14 hrs.

15. The price of sugar is reduced by 3%. How many kgs of sugar can now be bought for the money which was sufficient to buy 50kg of rice earlier?

- A. 50 kg
- B. 51.5 kg
- C. 55 kg
- D. 56 kg

Answer - B. 51.5 kg

Explanation:

Let us assume, the cost of 1 kg of sugar earlier = Rs. 100

So, 50 kg of sugar earlier = Rs. 5000

Given that the cost of the sugar reduced by 3%

Now, 1 kg of sugar = Rs. 97

Therefore, Quantity to buy now = $5000/97 = 51.5$ kg.

16. 40% of the students like Science, 50% like Hindi and 10% like both Science and Hindi. What % of the students like neither Hindi nor Science?

- A. 20%
- B. 40%
- C. 60%
- D. 80%

Answer - A. 20%

Explanation:

$$n(S \cup H) = n(S) + n(H) - n(S \cap H)$$

$$n(S \cup H) = 40 + 50 - 10 = 80$$

Therefore, the percentage of students who like neither English nor Mathematics = $100 - 80 = 20\%$.

17. In an examination, there are 3 subjects Physics, Biology, and Sanskrit of 100 marks each. Jayasri scores 60% and 80% in Physics and Biology. She scored 70% in aggregate. Her Percentage of mark in Sanskrit is?

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- A. 50
- B. 60
- C. 70
- D. 80

Answer - C. 70

Explanation:

Given that the aggregate percentage in 3 subjects is 70%

So, Total percentage = $3 \times 70 = 210$

% in Sanskrit = $210 - (60 + 80) = 210 - 140 = 70$.

18. The average age of 30 boys in a class is equal to 14 years. When the age of the class teacher is included the average becomes 15 years. Find the age of the class teacher?

- A. 50
- B. 42
- C. 44
- D. 45

Answer – D. 45.

Explanation:

Total ages of 30 boys = $14 \times 30 = 420$ years.

Total age including the class teacher = $15 \times 31 = 465$ years.

Hence, Age of class teacher = $465 - 420 = 45$ years.

19. A rectangular sheet of 0.5 cm thickness is made from an iron cube of side 10 cm by hammering it down. The sides of the sheet are in the ratio 1: 5. Find the largest side of the sheet.

- A. 50 cm
- B. 60 cm
- C. 70 cm
- D. 100 cm

Answer - D. 100 cm

Explanation:

Sides = x and $5x$

Now Volume of Rectangle = Volume of Cube

$x \times 5x \times (0.5) = 10 \times 10 \times 10$

By solving you will get $x = 20$

Hence, the largest side = $5x = 5 \times 20 = 100$ cm.

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20. The age of Vishnu is 54 yrs If Sudheer's age is 36% more than that of Vishnu, What % is Vishnu's age less than Sudheer?

- A. 20%
- B. 26%
- C. 35%
- D. 37%

Answer - B. 26%

Explanation:

$$\text{Sudheer} = 136 \times 54 / 100 = 73$$

$$\% \text{ of Vishnu's age less than Sudheer} = 73 - 54 / 73 = 26\%$$