

Infosys Aptitude Questions and Answers with Explanation

1. The average age of 30 boys of 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. 45
- B. 42
- C. 50
- D. 44

Answer – A. 45

Explanation:

Given that

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

Total age when class teacher is included = $15 \times 31 = 465$ years

Age of class teacher = $465 - 420 = 45$ years

Hence, the age of the class teacher is 45 years.

2. The average of 11 numbers is 10.9. If the average of first six is 10.5 and that of the last six is 11.4 the sixth number is?

- A. 11.4
- B. 11.5
- C. 11.0
- D. 11.3

Answer - B. 11.5

Explanation:

Given, 1 to 11 = $11 \times 10.9 = 119.9$

1 to 6 = $6 \times 10.5 = 63$

6 to 11 = $6 \times 11.4 = 68.4$

$63 + 68.4 = 131.4 - 119.9 = 11.5$

Therefore, 6th number = 11.5

3. A shop dealer makes his goods 25% above CP and then while selling gives a discount of 12% on MP. Find his profit %

- A. 15%
- B. 12%

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- C. 11%
- D. 10%

Answer - D. 10%

Explanation :

Let Cost Price (CP) = 100

Market Price (MP) = 125

Profit = $125 \times 88 / 100 = 110$

$110 - 100 = 10\%$.

4. A and B rent a pasture for 10 months. A put in 80 cows for 7 months. How many can B put in for the remaining 3 months, if he pays half as much again as A?

- A. 120
- B. 280
- C. 180
- D. 200

Answer - B. 280

Explanation:

According to the given data

$80 \times 7 : x \times 3 = 1 : 1 \frac{1}{2}$

$560 : 3x = 2 : 3$

$x = 280$

5. Ramesh can finish a work in 20 days and Sushil in 25 days. They both work together for 5 days and then Sushil goes away. In how many days will Ramesh complete the remaining work?

- A. 10 days
- B. 11 days
- C. 8 days
- D. 9 days

Answer - B. 11 days

Explanation:

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Let's assume the completion of remaining work by Ramesh is x then, according to the given information

$$(5 + x)/20 + 5/25 = 1 \Rightarrow x = 11 \text{ days}$$

6. If P can do a work in 6 days and Q can do the same work in 8 days. If R who can do the same work in 12 days, joins them, then the work will be completed in how many days?

- A. $7/3$ days
- B. $8/3$ days
- C. $10/3$ days
- D. $11/3$ days

Answer – B. $8/3$ days

Explanation:

$$1/6 + 1/8 + 1/12 = 1/d.$$

$$D = 8/3 \text{ days}$$

Therefore, the work will be completed in $8/3$ days.

7. 5 men and 10 boys can do a piece of work in 30 days and 8 men and 12 boys can do the work in 20 days then the ratio of daily work done by a man to that of boy.

- A. 6:1
- B. 7:3
- C. 4:5
- D. 5:1

Answer – A. 6:1

Explanation:

$$5m + 10b = 1/30 \text{ and } 8m + 12b = 1/20$$

after solving we get $m = 1/200$ and $b = 1/1200$

$$\text{so required ratio} = (1/200) : (1/1200) = 6:1$$

Hence, the ratio of daily work done by a man to that boy is 6:1.

8. A man spends 60% of his income. His income is increased by 20% and his expenditure also increases by 10%. Find the percentage decrease in his saving?

- A. 15%

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- B. 20%
- C. 25%
- D. 10%

Answer – D. 10%

Explanation:

Let us assume initially income is 100.

So, expenditure = 60 and saving = 40

Now income is increased by 20% that is 120.

So, expenditure = $(70/100) \times 120 = 84$ and saving = 36

so % percent decrease in saving = $(4/40) \times 100 = 10\%$

9. Rani mixes 70 kg of sugar worth Rs.28.50 per kg with 100 kg of sugar worth Rs.30.50 per kg. At what rate shall he sell the mixture to gain 10% ?

- A. Rs.29.75
- B. Rs.32.64
- C. Rs.31.50
- D. Rs.30.46

Answer – B. Rs.32.64

Explanation:

$$70/100 = 100x - 30.50(110)/28.50(110)-100x$$

$$0.7 = 100x - 3355/3135 - 100x$$

$$2194.5 - 70x = 100x - 3355$$

$$170x = 5549.5$$

$$X = 32.64$$

10. How much water must be added to a bucket which contains 40 liters of milk at the cost price of Rs.3.50 per liter so that the cost of milk reduces to Rs.2 per liter?

- A. 25 liters
- B. 28 litres
- C. 30 liters
- D. 35 liters

Answer - C. 30 liters

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Explanation:

Total cost price = $\text{Rs}(40 \times 7/2) = \text{Rs.}140$

Cost per litre = $\text{Rs.}2$

Total quantity = $140/2 = 70$ liters.

Water to be added = $(70-40) = 30$ liters.