

3. Ganesh's monthly income is twice Jassi's monthly income. Two third of Jassi's monthly income is equal to Sukhvinder's monthly income. If Sukhvinder's annual income is Rs. 2.34 lakhs, what is Ganesh's monthly income?

- a. Rs. 14625
- b. Rs. 29250
- c. Rs. 28230
- d. Rs. 58500

Ans: D

$$\text{Sukhvinder's monthly income} = ₹ \left(\frac{234000}{12} \right) = ₹ 19500.$$

$$\text{Jassi's monthly income} = ₹ \left(\frac{3}{2} \times 19500 \right) = ₹ 29250.$$

$$\therefore \text{Ganesh's monthly income} = ₹ (2 \times 29250) = ₹ 58500.$$

4. The cost of 13 kg of sugar is Rs. 195, the cost of 17 kg of rice is Rs. 544 and the cost of 21 kg of wheat is Rs. 336. What is the total cost of 21 kg of sugar, 26 kg of rice and 19 kg of wheat?

- a. Rs. 1306
- b. Rs. 1451
- c. Rs. 1500
- d. Rs. 1636

Ans: B

$$\text{Cost of 1 kg of sugar} = ₹ \left(\frac{195}{13} \right) = ₹ 15.$$

$$\text{Cost of 1 kg of rice} = ₹ \left(\frac{544}{17} \right) = ₹ 32.$$

$$\text{Cost of 1 kg of wheat} = ₹ \left(\frac{336}{21} \right) = ₹ 16.$$

$$\begin{aligned} \therefore \text{Required cost} &= ₹ (15 \times 21 + 32 \times 26 + 16 \times 19) \\ &= ₹ (315 + 832 + 304) = ₹ 1451. \end{aligned}$$

5. Ram had Rs. 1000 in his Saving Bank Account. Every month in the first week he needs money, so he withdraws Rs. 500, but by the end of the month, he deposits Rs. 750. After how many months the original amount will grow three times?

- a. 6 months
- b. 7 months
- c. 8 months
- d. 9 months

Ans: C

For the money to grow 3 times, Ram needs to deposit ₹ $(3000 - 1000) = ₹ 2000$.

A net amount of ₹ $(750 - 500) = ₹ 250$ is deposited in 1 month.

So, a net amount of ₹ 2000 will be deposited in $\left(\frac{2000}{250}\right) = 8$ months.

6. Along a yard 225 metres long, 26 trees are planted at equal distances, one tree being at each end of the yard. What is the distance between two consecutive trees?

- a. 8 metres
- b. 9 metres
- c. 10 metres
- d. 15 metres

Ans: B

26 trees have 25 gaps between them. Hence, required

$$\text{distance} = \left(\frac{225}{25}\right) \text{m} = 9 \text{m}.$$

7. When all the students in a school are made to stand in rows of 54, 30 such rows are formed. If the students are made to stand in rows of 45, how many such rows will be formed?

- a. 25

b. 32

c. 36

d. 42

Ans: C

Total number of students = 54×30 .

$$\therefore \text{Required number of rows} = \left(\frac{54 \times 30}{45} \right) = 36.$$

8. A man takes 8 minutes to type a page. If 1710 pages are to be typed in the afternoon between 1'o clock to 2'o clock, how many men are required?

a. 221

b. 249

c. 256

d. None of these

Ans: D

Number of pages typed by 1 man in 1 hour = $\frac{60}{8} = 7.5$.

$$\therefore \text{Number of men required} = \frac{1710}{7.5} = 228.$$

9. The marks scored in an examination are converted from 50 to 10 for the purpose of internal assessment. The highest marks were 47 and the lowest were 14. The difference between the maximum and minimum internal assessment scores is

a. 3.3

b. 4.8

c. 6.6

d. 7.4

Ans: C

$$\text{Maximum internal assessment score} = \left(\frac{47}{50} \times 10 \right) = 9.4.$$

$$\text{Minimum internal assessment score} = \left(\frac{14}{50} \times 10 \right) = 2.8.$$

$$\therefore \text{Required difference} = (9.4 - 2.8) = 6.6.$$

$$10. -76 \times 33 + 221 = ?$$

a. -2287

b. 2287

c. -19304

d. 19304 \rightarrow A

Ans:

$$\text{Given exp.} = -2508 + 221 = -2287.$$