

Ex - 57

1. The maximum marks for the test was 1050.

Priya got 90% marks.

$$\therefore \text{Priya's total marks was} = \frac{90}{100} \times 1050 = 945.$$

2. 1560 bulbs were used in decorating a house.

15% of them were red.

$$\therefore \frac{15}{100} \times 1560 = 234 \text{ bulbs were used to decorate the house.}$$

3. The class teacher gave 150 tickets to Sunil.

He could sell 60% of them.

$$\therefore \text{Sunil sold } \frac{60}{100} \times 150 = 90 \text{ tickets.}$$

4. The monthly income of a man is ₹ 7200.

He spends 80% of his salary on household expenses.

$$\therefore \text{He spends } \frac{80}{100} \times 7200 = \text{₹ } 5760 \text{ on household expenses.}$$

$$\therefore \text{He saves } (7200 - 5760) = \text{₹ } 1440.$$

5. The student collected Rs. 2500.

Manju alone contributed 15% of the amount.

$$\therefore \text{Manju contributed} = \frac{15}{100} \times 2500 = \text{Rs. } 375.$$

6.

The weight of a bag is 30 kg.

The weight of a suitcase is 30% less than the bag's weight.

$$\therefore \text{The weight of the suitcase is } = \left\{ 30 - \left( \frac{30}{100} \times 30 \right) \right\} \\ = \{ 30 - 9 \} = 21 \text{ kg}$$

7. Rama is 150 cm tall.

Papiya is 10% taller than Rama.

$$\therefore \text{Papiya is} = \left\{ 150 + \left( \frac{10}{100} \times 150 \right) \right\} \\ = \{ 150 + 15 \} = 165 \text{ cm tall.}$$

8.

There is 32 litres of petrol in a car.

It uses 75% petrol on a trip.

$$\therefore \left\{ 32 - \left( \frac{75}{100} \times 32 \right) \right\} = \{ 32 - 24 \} = 8 \text{ litres of petrol is left in the car.}$$

9.

In an examination, 24 students passed out of 60 appeared students, and rest ~~failed~~ failed.

$$\therefore \frac{24}{60} \times 100\% = 40\% \text{ students passed.}$$

$$\therefore \frac{(60-24)}{60} \times 100\% = \frac{36}{60} \times 100\% = 60\% \text{ students failed.}$$

10.

A man's salary was Rs. 1250 per month.

It is increased to Rs. 1750 per month.

$$\therefore \frac{(1750-1250)}{1250} \times 100\% = \frac{500}{1250} \times 100\% = 40\% \text{ is increased in his salary.}$$

11.

A boy scored 950 marks out of 1000 marks.

$$\therefore \text{He scored} = \frac{950}{1000} \times 100\% = 95\% \text{ marks.}$$

12.

The cost of a T-shirt was ₹ 120. ~~in January~~

The same T-shirt now costs ₹ 150.

$$\therefore \text{The cost of the T-shirt increases} = \frac{(150-120)}{120} \times 100\% \\ = \frac{30}{120} \times 100\% \\ = 25\%$$