

1. (a) Cost Price = Rs. 270, Selling Price = Rs. 300

$$\therefore \text{Profit} = (\text{SP} - \text{CP}) = (300 - 270) = \text{Rs. } 30.$$

(b) Cost Price = ₹ 325, Selling Price = ₹ 275

$$\therefore \text{Loss} = (\text{CP} - \text{SP}) = (325 - 275) = ₹ 50$$

(c) Cost Price = Rs. 818, Selling Price = Rs. 895

$$\therefore \text{Profit} = (\text{SP} - \text{CP}) = (895 - 818) = \text{Rs. } 77$$

(d) Cost Price = ₹ 1080, Selling Price = ₹ 1000

$$\therefore \text{Loss} = (\text{CP} - \text{SP}) = (1080 - 1000) = ₹ 80$$

2. (a) If CP = Rs. 136, SP = Rs. 140 then the Profit = Rs. 4

(b) If CP = ₹ 248, SP = ₹ 178 then the Loss = ₹ 70

(c) The selling price of a watch is ₹ 1500 and the cost price is ₹ 1400. The profit = ₹ 100

(d) The cost price of a book is Rs. 22.25 and its selling price is Rs. 20.50. The loss = Rs. 1.75

3. A pen is bought for Rs. 7.75 and sold at Rs. 6.25.

$$\therefore \text{The loss is} = (7.75 - 6.25) = \text{Rs. } 1.50.$$

4. Praveen sold a water filter for Rs. 960. He had bought it for Rs. 875.

$$\therefore \text{His profit was} = (960 - 875) = \text{Rs. } 85.$$

5. A man bought a dozen eggs at ₹ 1.10 per egg. He sold the eggs at ₹ 1.50 per egg.

$$\begin{aligned} \therefore \text{His profit was} &= \{ (1.50 \times 12) - (1.10 \times 12) \} \\ &= \{ 18 - 13.2 \} = \text{₹ } 4.80 \end{aligned}$$

[a dozen = 12]

6. A shopkeeper bought 40 chocolate bars for Rs. 5 each.

He sold them all and got Rs. 235.

$$\therefore \text{He made a profit of } \{ 235 - (5 \times 40) \} = \{ 235 - 200 \} \\ = \text{Rs. } 35$$

7. A man bought 80 mangoes at Rs. 1 each.
10 of them could not be sold.

He sold the remaining at Rs. 1.50 each.

$$\therefore \text{His profit was} = \cancel{(80 \times 1)} \left[\{ (80 - 10) \times 1.50 \} - (80 \times 1) \right] \\ = \left[\{ 70 \times 1.50 \} - 80 \right] \\ = [105 - 80] = \text{Rs. } 25.$$

8. A dishonest milkman bought 20 litres of milk at ₹ 10 per litre.

He added 5 litres of water to it, and he sold the water-mixed milk at ₹ 10 per litre.

$$\therefore \text{His profit was} = \left[\{ (20 + 5) \times 10 \} - (20 \times 10) \right] \\ = \left[\{ 25 \times 10 \} - 200 \right] \\ = [250 - 200] = ₹ 50$$

9. A businessman bought an almirah for Rs. 1800. He spent Rs. 50 on transporting it to house. He sold it for Rs. 2100.

$$\therefore \text{His profit was} = \cancel{(2100)} \{ 2100 - (1800 + 50) \} \\ = \{ 2100 - 1850 \} = \text{Rs. } 250$$