

Class-5

Chapter – 9

Percentage

<u>Lecture sheet – 6</u>

Creative Question

- 1. A seller sold an item of 1600 taka at a discount of 20%.
 - a. What was the selling price of the item?
 - b. What will the selling price be if the item is sold with the profit of 20%?

Solution:

a) Given,

Cost price = 1600 tkLoss % = 20 %

We know,

Selling Price =
$$\left[\frac{(100 - loss\%)}{100} \times Cost \, price\right]$$

= $\left[\frac{(100 - 20)}{100} \times 1600\right] tk$
= $\left(\frac{80 \times 1600}{100}\right) tk$
= 1280 tk

Ans: 1280 tk

b) Given,

Cost price = 1600 tkProfit % = 20 %

We know,

Selling Price =
$$\left[\frac{(100 + Profit\%)}{100} \times Cost \ price\right]$$

= $\left[\frac{(100 + 20)}{100} \times 1600\right]$ tk

$$= \left(\frac{120 \times 1600}{100}\right) tk$$

= 1920 tk.

Ans: 1920 tk.

2.A fan is sold at 1280 taka at a discount of 20%.a. What is the cost price of the fan?b. If the fan sold at 1520 taka, what is the percentage of profit or loss?

Solution:

a) Given,

Selling Price = 1280 tkLoss % = 20%

We know,

Cost price =
$$\left[\frac{100}{(100 - Loss\%)} \times selling price\right]$$

= $\left[\frac{100}{(100 - 20)} \times 1280\right]$ tk
= $\left(\frac{100 \times 1280}{100}\right)$ tk
= 1600 tk

Ans: 1600 tk

b) Given,

Selling price = 1520 tkFrom 'a' we get, cost price = 1600 tkLoss = Cost price – Selling price = (1600 - 1520) tk= 80 tk

We know,

Loss % =
$$\frac{Loss}{cost \, price} \times 100\%$$

= $\frac{80}{1600} \times 100\%$
= 5 %

Ans: 5 %

Exercise (Do yourself)

- 1. A seller brought a pen at 20 taka and sold at 25 Taka.
 - a. What was the percentage of his profit?
 - b. What will the selling price be with the profit of 10%?
- 2. A seller bought a basket full of mangoes at 1200 taka and sold them with profit of 10%.
 - a. What was the selling price of the mangoes?
 - b. How much taka more would the selling price be if he wanted to sell the mangoes with profit of 15%?