

Percentage**Lecture sheet – 6****Creative Question****Solution****1.****a) Given,**

Cost Price = 20 tk

Selling = 25 tk

Profit = (25 – 20) tk. = 5 tk

We know,

$$\begin{aligned}\text{Profit \%} &= \frac{\text{Profit}}{\text{Cost Price}} \times 100\% \\ &= \frac{5}{20} \times 100\% \\ &= 25\%\end{aligned}$$

Ans: 25 %**b) Given,**

Cost price = 20 tk

Profit % = 10 %

We know,

$$\begin{aligned}\text{Selling Price} &= \left[\frac{(100 + \text{Profit}\%)}{100} \times \text{Cost price} \right] \\ &= \left[\frac{(100 + 10)}{100} \times 20 \right] \text{ tk} \\ &= \left(\frac{110 \times 20}{100} \right) \text{ tk} \\ &= 22 \text{ tk}\end{aligned}$$

Ans: 22 tk

2.

a) Given,

Cost price = 1200 tk

Profit % = 10 %

We know,

$$\begin{aligned}\text{Selling Price} &= \left[\frac{(100 + \text{Profit}\%)}{100} \times \text{Cost price} \right] \\ &= \left[\frac{(100 + 10)}{100} \times 1200 \right] \text{ tk} \\ &= \left(\frac{110 \times 1200}{100} \right) \text{ tk} \\ &= 1320 \text{ tk}\end{aligned}$$

Ans: 1320 tk

b) Given,

Cost price = 1200 tk

Profit % = 15 %

We know,

$$\begin{aligned}\text{Selling Price} &= \left[\frac{(100 + \text{Profit}\%)}{100} \times \text{Cost price} \right] \\ &= \left[\frac{(100 + 15)}{100} \times 1200 \right] \text{ tk} \\ &= \left(\frac{115 \times 1200}{100} \right) \text{ tk} \\ &= 1380 \text{ tk}\end{aligned}$$

Selling price will be more = (1380 - 1320) tk
= 60 tk

Ans: 60 tk