

Percentage**Lecture sheet – 3****Solution**

1. Given,

Rate of interest = 15 %

Interest = 1680 tk

Time = 1 year

We know,

$$\begin{aligned}\text{Principal} &= \frac{\text{Interest} \times 100}{\text{Rate of Interest} \times \text{Time}} \\ &= \frac{1680 \times 100}{15 \times 1} \text{ tk} \\ &= (112 \times 100) \text{ tk} \\ &= 11200 \text{ tk}\end{aligned}$$

Ans: 11200 tk

2. Given ,

Principal = 15000 tk

Time = 5 years

Rate of interest = 8%

We know,

$$\begin{aligned}\text{Interest} &= \frac{\text{Principal} \times \text{Rate of Interest} \times \text{Time}}{100} \\ &= \frac{15000 \times 8 \times 5}{100} \\ &= 6000 \text{ tk}\end{aligned}$$

Amount should be pay back 5 years later = (15000+6000) tk
= 21000 tk

Ans: 21000 tk

3.

Given,

Amount = 98,000 tk

Principal = 50,000 tk

Time = 8 years

Interest = Amount – Principal

= (98000 – 50000) tk

= 48,000 tk

We know,

$$\begin{aligned}\text{Rate of interest} &= \frac{\text{Interest} \times 100}{\text{Principal} \times \text{Time}} \% \\ &= \frac{48000 \times 100}{50000 \times 8} \% \\ &= 12 \%\end{aligned}$$

Ans: 12 %