



Class – 5

Chapter – 9

*Percentage*

Lecture sheet – 7

**Short Question Answer**

1. A book is sold at 90 tk with the loss of 10%. What is the cost price of the book?

Ans: 100 tk.

**Rough**

Given,

$$\text{S.P.} = 90 \text{ tk}$$

$$\text{Loss\%} = 10\%$$

We know,

$$\text{C.P.} = \left[ \frac{100}{(100 - \text{Loss\%})} \times \text{S.P.} \right]$$

$$= \left[ \frac{100}{(100 - 10)} \times 90 \right] \text{ tk}$$

$$= \left( \frac{100 \times 90}{90} \right) \text{ tk}$$

$$= 100 \text{ tk}$$

2. Convert 33% into decimal fraction.

Ans: 0.33.

**Rough**

$$33\% = \frac{33}{100} = 0.33$$

**3. The cost of the book is 100 tk, what will the selling price be if it is sold at profit 8%?**

**Ans:** 108 tk.

**Rough**

Given,

$$\text{C.P.} = 100 \text{ tk}$$

$$\text{Profit\%} = 8\%$$

We know,

$$\text{S.P.} = \left[ \frac{(100 + \text{Profit\%})}{100} \times \text{C.P.} \right]$$

$$= \left[ \frac{(100 + 8)}{100} \times 100 \right] \text{ tk}$$

$$= \left( \frac{108 \times 100}{100} \right) \text{ tk}$$

$$= 108 \text{ tk}$$

**4. Convert  $\frac{3}{5}$  into percentage.**

**Ans:** 60%.

**Rough**

$$\frac{3}{5} = \frac{3 \times 20}{5 \times 20} = \frac{60}{100} = 60\%$$

**5. What is the basis of calculating profit and loss?**

**Ans:** Cost price.

**6. What is made if selling price is more than the cost price?**

**Ans:** Profit.

**7. What is made if cost price is more than the selling price?**

**Ans:** Loss.

**8. Write the formula to find annual interest.**

**Ans:** Annual interest =  $\frac{\text{Principal} \times \text{Rate of interest} \times \text{Time}}{100}$

**9. 1 Kg mango is brought for 100 tk and sold for 95 tk. What is the percentage of profit or loss?**

**Ans:** Loss 5%.

**Rough**

Given,

$$\text{C.P.} = 100 \text{ tk}$$

$$\text{S.P.} = 95 \text{ tk}$$

$$\text{Loss} = (100 - 95) \text{ tk}$$

$$= 5 \text{ tk}$$

We Know,

$$\text{Loss\%} = \frac{\text{Loss}}{\text{C.P.}} \times 100\%$$

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

$$= 5\%$$

**10. The cost price of a book is tk 150 and the selling price is tk 180. What is the percentage of profit%?**

**Ans:** 20%.

**Rough**

Given,

$$\text{C.P.} = 150 \text{ tk}$$

$$\text{S.P.} = 180 \text{ tk}$$

We Know,

$$\text{Profit\%} = \frac{\text{Profit}}{\text{C.P.}} \times 100\% = \frac{30}{150} \times 100\% = 20\%$$

**11. 15% of 300 Taka =?**

**Ans:** 45 tk.

**Rough**

15% of 300

$$= \frac{15}{100} \times 300$$

$$= 45$$

**12. What does a profit of 5% imply?**

**Ans:** If cost price is 100 Taka, then selling price is (100+5), that is, 105 Taka.

**13. Profit or loss depends on what?**

**Ans:** Cost price.

**14. What is the invested money called?**

**Ans:** Principal.

**15. 56% of what gram is 42 grams?**

**Ans:** 75 grams.

**Rough**

$$56\% \text{ of } \square = 42$$

$$\Rightarrow \frac{56}{100} \times \square = 42$$

$$\Rightarrow \square = \frac{42 \times 100}{56}$$

$$\Rightarrow \square = 75$$

**16. Common fraction of 5% is what?**

**Ans:**  $\frac{1}{20}$

**Rough**

$$5\% = \frac{5}{100} = \frac{1}{20}$$

**17. How much is 4% of 75 Taka?**

**Ans:** 3 Taka.

**18. How many Kilograms are 20% of 120 Kilograms?**

**Ans:** 24 Kilograms.

**Rough**

$$\square = 20\% \text{ of } 120$$

$$\Rightarrow \square = \frac{20}{100} \times 120$$

$$\Rightarrow \square = 24$$

**19. How much is 30% of 50 grams?**

**Ans:** 15 grams.

**Rough**

30% of 50

$$= \frac{30}{100} \times 50$$

$$= 15$$

**20. Express 35% as a fraction.**

**Ans:**  $\frac{7}{20}$ .

**Rough**

$$35\% = \frac{35}{100} = \frac{7}{20}$$