Cosmo School Class – 5 Chapter – 9 Percentage Lecture sheet – 9 Creative Question

### Profit & Loss

#### Formula

- 1. Profit = Selling price Cost price
- 2. Loss = Cost price Selling price

3. Profit% = 
$$\frac{Profit}{Cost Price} \times 100\%$$
  
4. Loss% =  $\frac{Loss}{Cost Price} \times 100\%$   
5. For Profit, Selling Price =  $\left[\frac{(100+Profit\%)}{100} \times Cost price\right]$   
6. For Loss, Selling Price =  $\left[\frac{(100-Loss\%)}{100} \times Cost price\right]$   
7. For Profit, Cost price =  $\left[\frac{100}{(100+Profit\%)} \times selling price\right]$   
8. For Loss, Cost price =  $\left[\frac{100}{(100-Loss\%)} \times selling price\right]$ 

### Exercise (Do yourself)

#### 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%?

#### 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?

#### 3. 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%?

## 4. 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%?

#### 5. In a shop, an item of 1800 Taka was sold at a discount of 20%.

- *a.* Express 20% of common fraction in to lowest term.
- *b*. How much Taka was the selling price?
- c. How much will the item be sold to profit 10%.

#### 6. Out of 60 students of a class, 35% are girls.

- *a*. How many girl students are there in the class?
- *b.* If the total number of students of the class be 80, then how many boy students will be there in the class?
- *c*. If 15% students of the class fail in mathematics, how many students fail in mathematics?
- *d.* If 55% students remain absent in a rainy day, how many students are present?

# 7. A seller laid a table in stock but sold it at 7040 Taka after 12% discount from the cost price.

- a. What is the selling price at 12% percent discount from cost price?
- **b.** What was the cost price of the table?
- *c*. 5 chairs are bought by the price of the table. If selling price of each chair is 2215 Taka. What is the profit per chair?