

**CHAPTER 08****Comparing Quantities****Example:**

Venkanna purchased 50 dozen bananas for Rs.1250. He incurred transportation charges of Rs. 250. He could not sell five dozen bananas as they were spoiled. He sold the remaining bananas at Rs. 35 for each dozen will he get a profit or a loss? Find profit or loss percent?

**Sol.**

Total cost price

$$= \text{Cost price of bananas} + \text{Transportation charges}$$

$$= \text{Rs. } 1250 + \text{Rs. } 250$$

$$= \text{Rs. } 1500$$

Number of dozens of bananas sold

$$= \text{Number of dozens purchased} - \text{Number of dozens rotten}$$

$$= 50 - 5$$

$$= 45$$

$$\text{Selling price} = \text{Rs. } 35 \times \text{Rs. } 45 = \text{Rs. } 1575$$

Clearly,

Selling price > Cost price

So, it is a profit.

$$\text{Profit} = \text{Selling Price} - \text{Cost Price}$$

$$\text{Profit} = \text{Rs. } 1575 - \text{Rs. } 1500$$

$$\text{Profit} = \text{Rs. } 75$$

On cost price of Rs. 1500, profit is Rs. 75

On cost price of Rs. 100, profit will be?

$$\text{Profit percent} = \frac{\text{Profit}}{\text{C. P}} \times 100$$

$$\text{Profit \%} = \frac{75}{1500} \times 100$$

$$\text{Profit} = 5\%$$