

Chapter: 8

Comparing Quantities

NOTES:

Comparing Quantities

- 1. Ratio a : b = $\frac{a}{b}$ e.g - 3 : 7 = $\frac{a}{b}$ 8 : 1 = $\frac{8}{1}$ And 3 : 9 = $\frac{3}{9}$ $\frac{1}{3}$ 1 : 3 = $\frac{1}{3}$
- 2. Equivalent Ratio: $\frac{5}{10}$ and $\frac{4}{8}$ are equivalent rational no. $\frac{5}{10}$ and $\frac{4}{8}$ $\cancel{\chi}$ [$\because \frac{1}{2} = \frac{1}{2}$] i.e 5: 10 and 4: 8 are equivalent ratios.

PERCENTAGE

Percentage are numerators of fraction with denominator 100

Percent is derived from Latin words 'per centum' meaning 'per hundred'.

Percent is represented by the symbol % and means hundredths too, That is 1 % means 1 out of hundred or one hundredth.

It can be written as 1 % = $\frac{1}{100}$ = 0.01

Increase or Decrease as per cent

Percentage increase or decrease = $\frac{amount\ change}{original\ amount} \times 100$

Cost price – The buying price of any item is known as its cost price. It is written in short as CP.

Selling Price – The price at which we sell is known as the selling price or in short SP.

$$Profit = SP - CP$$

$$Loss = CP - SP$$

DE EDUCATION (S)

- Profit percent = $\frac{Profit}{CP} \times 100$
- * Profit = Profit $\% \times CP$

- Loss percent = $\frac{Loss}{CP} \times 100$
- Amount = Principal + Interest
- Simple Interest = $\frac{PRT}{100}$

Here, P= Principal or Sum borrowed

R = Interest Rate

T = Time

