Percentages

A percentage is a fraction of 100, used to express ratios or comparisons. It is denoted by the symbol %.

Key Formulae :-
1. Finding Percentage of a Number.

$$P\% \text{ of } x = \frac{P}{100} \times x$$

2. Converting Fraction to Percentage

$$\frac{a}{b} \times 100$$

3. Percentage Change :-

$$\frac{\text{New Value} - \text{Old value}}{\text{Old Value}} \times 100 \implies \text{Increase}.$$

$$\frac{\text{Old Value} - \text{New Value}}{\text{Old value}} \times 100$$

Problem 1 :-
Find 25% of 640

Solution :- 25% of 640 = $\frac{25}{100} \times 640$

= 0.25 × 640

= 160

Ans = 160

Problem 2 :-
The price of a product increases from ₹800 to ₹960
find the percentage increase.

= $\frac{960-800}{800} \times 100$

= $\frac{160}{800} \times 100$

= $\frac{160}{8}$

= 20%

Answer :- 20%