PERCENT AND PERCENTAGE

Percent means for every hundred, abbreviated as p.c. and denoted by the symbol "%"

A fraction whose denominator is 100 is called a percentage, and the numerator of such fraction is called the "rate percent".

(1)	To express a given number as percent, multiply by 100 and in same step attach the percentage symbol (%)	Ex: ${}_{5}^{3} \gg {}_{5}^{3} \times 100 = 60\%$ Ex: 0. 45×100 = 45%
(11)	• To express a given percent into fraction, divide by 100 and in the same step remove the symbol of percentage	Ex: $45\% = \frac{45}{100} = 9$ (fraction) = 0. 45(decimal)

- x as the percent of $y = \frac{x}{y} \times 100$
- y as the percent of $x = y \times 100$
- Increase $\% = \frac{Increase in Quantity}{Original Quantity} \times 100\%$
- Decrease % = $\frac{Decrease in Quantity}{Original Quantity} \times 100\%$ Error % = $\frac{Error}{Actual Lenth}$
- If a number is increased by x%, the new number • $= (\frac{100 + x}{100}) \times the original number$
- If a number is decreased by x%, *the new number* • $=(\frac{100-x}{2}) \times the original number$