

Chapter- 7

PERCENT AND PERCENTAGE**Percentage Formula**

To determine the percentage, we have to divide the value by the total value and then multiply the resultant to 100.

Percentage formula = (Value/Total value) \times 100

Example: $2/5 \times 100 = 0.4 \times 100 = 40$ per cent

How to calculate the percentage of a number?

To calculate the percentage of a number, we need to use a different formula such as:

P% of Number = X

Where X is the required percentage.

If we remove the % sign, then we need to express the above formulas as;

$P/100 * \text{Number} = X$

Example: Calculate 10% of 80.

Let 10% of 80 = X

$10/100 * 80 = X$

$X = 8$

Percentage Increase and Decrease

The percentage increase is equal to the subtraction of original number from a new number, divided by the original number and multiplied by 100.

% increase = [(New number – Original number)/Original number] \times 100

Where,

Increase in number = New number – original number

Similarly, percentage decrease is equal to subtraction of new number from original number, divided by original number and multiplied by 100.

% decrease = [(Original number – New number)/Original number] \times 100

Where decrease in number = Original number – New number