

## Use of Percentages



### Interpreting percentages:

As we know a percentage is a number without having any unit. It is denoted by a % symbol. So, 30 % is nothing but 30 parts per 100 which can also be

Written as  $\frac{30}{100} = \frac{3}{10}$

Therefore, the percentage value can be interpreted as a fraction by dividing the value by 100.

**Example:** A is spending 60% part of his salary.

60% means 60 parts out of 100 or  $\frac{60}{100}$

This means A is spending ₹ 60 out of every ₹ 100

**Example:** In a city 30 % population are children.

30 % means 30 parts out of 100 or  $\frac{30}{100}$ .

This means in a city there are 30 children out of 100 peoples.

Converting percentages to "How Many"

By using the given percentage, we calculate exactly what the amount or what quantity one is talking about.

**Example:** A is saving 50 % of his salary it means B is saving ₹ 50 for every ₹ 100 he has been earning. So, how much B is saving if the salary is ₹ 50000 per month?

We know that, B saves 50% of his salary.

Replacing 50 % by  $\frac{50}{100}$  for calculating the amount,



Therefore, the total amount B is saving

$$= \frac{50}{100} \times 50,000 = ₹25,000$$

**Example:** Find the whole quantity

If 30 % of it is 600

Let the whole quantity be x

$$30 \% \text{ of } x = 600$$

$$\frac{30}{100} \text{ of } X = 600$$

$$X = \frac{100}{30} \times 600$$

$$X = \frac{600}{3}$$

$$X = 2000$$