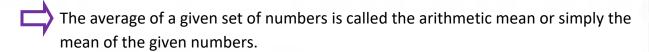
Arithmetic Mean



$$Mean = \frac{Sum of all Observations}{Number of observations}$$

Let us understand with some examples:

Example: Find the mean of the first five multiples of 4.

Solution: The first five multiples of 4 are 4, 8, 12, 16 and 20.

Hence, Their mean =
$$\frac{4+8+12+16+20}{5}$$

= $\frac{60}{5}$ = 12

Example: The mean of six numbers 6, 8, 5, 7, x and 4 is 7. Find the value of x.

Solution: Mean =
$$\frac{\text{Sum of all Observations}}{\text{Number of observations}}$$

$$\Rightarrow 7 = \frac{6+8+5+7+x+4}{6}$$

$$\Rightarrow$$
 7 ×6 = 30 + x

$$\Rightarrow$$
 42 - 30 = x

$$\Rightarrow$$
 x = 12