

1. Mean

Mean of data = $\frac{\text{Sum of all observation}}{\text{Number of observation}}$

$$= \frac{2+3+4+5+0+1+3+3+4+3}{10}$$

$$= \frac{28}{10} = 2.8$$

Median

~~Arrangement~~ 0, 1, 2, 3, 3, 4, 4, 5

$$\text{Median} = \frac{\left(\frac{n}{2}\right)^{\text{th}} \text{ obs.} + \left(\frac{n}{2} + 1\right)^{\text{th}} \text{ obs.}}{2}$$

$$= \frac{\left(\frac{10}{2}\right)^{\text{th}} \text{ obs.} + \left(\frac{10}{2} + 1\right)^{\text{th}} \text{ obs.}}{2}$$

$$= \frac{5^{\text{th}} \text{ obs.} + 6^{\text{th}} \text{ obs.}}{2}$$

$$= \frac{3+3}{2} = 3$$

Mode

0, 1, 2, 3, 3, 4, 4, 5

Here,

0 occurs 1 time

1 occurs 1 time

2 occurs 1 times

3 occurs 3 times

4 occurs 2 times

5 occurs 1 time

Since 3 occurs maximum number of times.

\therefore Mode = 3

2. Mean

Mean of data = $\frac{\text{Sum of all observation}}{\text{Number of observation}}$

$$= \frac{41 + 39 + 48 + 52 + 46 + 62 + 54 + 40 + 96 + 52 + 98 + 40 + 42 + 52 + 60}{15}$$

$$= \frac{822}{15} = 54.8$$

Median

$$\text{Median} = \left(\frac{15 + 1}{2}\right)^{\text{th}} \text{ observation} = 8^{\text{th}} \text{ observation} \\ = 52$$

Mode

39, 40, 40, 41, 42, 46, 48, 52, 52, 52, 54, 60, 62, 96, 98

Here,

39 occurs 1 time

40 occurs 2 times

41 occurs 1 time

42 occurs 1 time

46 occurs 1 time

48 occurs 1 time

52 occurs 3 times

54 occurs 1 time

60 occurs 1 time

62 occurs 1 time

96 occurs 1 time

98 occurs 1 time

Since 52 occurs maximum number of times.

$$\therefore \text{Mode} = 52$$