

1. Scores in ascending order are

5, 9, 10, 12, 15, 16, 19, 20, 20, 20, 20, 23, 24, 25, 25

Mode = 20 (Most frequent obs.)

no. of observations = 15 (odd)

$$\text{Middlemost observation} = \frac{n+1}{2}$$

$$= \frac{16}{2}$$

$$= 8^{\text{th}}$$

$$\text{Median} = 20$$

yes.

2. observations in ascending order are 6, 8, 10, 10, 15, 15, 15, 50, 80, 100, 120

Mode = 15 (most frequent obs.)

no. of obs. = 11 (odd)

$$\text{Middlemost obs.} = \frac{11+1}{2}$$

$$\text{Median} = 15 = 6^{\text{th}}$$

$$\text{Mean} = \frac{\text{Sum of all obs}}{\text{no. of obs.}}$$

$$= \frac{429}{11}$$

$$= 39$$

no.