

3. observations in ascending order are
32, 35, 36, 37, 38, 38, 38, 40, 42, 43, 43, 43, 45,
47, 50

Mode = 38, 43 (Most frequent obs)
yes it has more than one mode.

no. of observations = 15 (odd)

$$\text{middlemost obs.} = \frac{n+1}{2}$$

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

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

$$\text{median} = 40$$

4. observations in ascending order are
12, 12, 13, 13, 14, 14, 14, 16, 19

mode = 14 (most frequent obs.)

no. of observations (n) = 9

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

$$= \frac{10}{2}$$

$$= 5^{\text{th}}$$

$$\text{Median} = 14$$