

$$\begin{aligned} \text{Mean} &= \frac{9+11+2+3+3+4+5+5+5+6+6+6+7+7+7+7+8+8+8}{20} \\ &= \frac{124}{20} = 6.2 \end{aligned}$$

Median = $n = 20/2 = 10 = \text{even}$ hence
median will be $n = 10$, & $n = 11$ average

$$= \frac{n(10) + n(11)}{2}$$

$$n_{10} = 6, \quad n_{11} = 7 \quad \therefore \text{Median} = \frac{(6+7)}{2} = \frac{13}{2}$$

$$= 6.5$$

Mode

2=1, 3=2, 4=1, 5=3, 6=3, 7=5, 8=3, 9=1, 11=1
 Since 7 occurs maximum times = 5
 hence Mode = 7

Range, Lowest value = 2, highest value = 11
 Range = highest value - lowest value
 $= 11 - 2 = 9$

3. The ages of a group of girls are:

14 years 3 months,	14 years 5 months
13 years 11 months,	14 years 3 months
14 years 7 months	14 years 3 months
14 years 1 month.	

Solⁿ

Converting the ages to months

14 years 3 months = $14 \times 12 + 3 = 171$ months

14 years 5 months = $14 \times 12 + 5 = 173$ months

13 years 11 months = $13 \times 12 + 11 = 167$ months

14 years 3 months = $14 \times 12 + 3 = 171$ months

$$14 \text{ years } 7 \text{ months} = 14 \times 12 + 7 = 175 \text{ months}$$

$$14 \text{ years } 3 \text{ months} = 14 \times 12 + 3 = 171 \text{ months}$$

$$14 \text{ years } 1 \text{ month} = 14 \times 12 + 1 = 169 \text{ months}$$

167 months 169 months 171 months 171 months

171 months, 173 months, 175 months

$$\text{Total no. of girls} = 7$$

$$\text{Mean} = \frac{167 + 169 + 171 + 171 + 171 + 173 + 175}{7}$$

$$= \frac{1197}{7} \text{ months} = 171 \text{ months}$$

$$= 14 \text{ years } 3 \text{ months}$$

Median = will be the 4th

171 month = 14 years 3 month

~~Median~~ Mode

$$167 = 1, 169 = 1, 171 = 3, 173 = 1, 175 = 1$$

Since 171 occurs thrice which is maximum

$$\text{hence } \text{Mode} = 171 = 14 \text{ yrs } 3 \text{ mths}$$

Range Lowest = 167, highest = 175

$$\text{Range} = \text{highest} - \text{lowest}$$

$$= 175 - 167 = 8 \text{ months}$$

4. The numbers of students present in a class over a three week periods are.

28, 24, 25, 28, 23, 28, 27, 26, 27, 25, 28, 28, 28,
26, 25