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Q. 20

G. Ioti Pizzeria

Sorted data

6 7 8 9 10 11 11 12 13 14

minimum = 6

max = 14

median: ~~n~~ n=10 is even

$$\text{Ans of } \left(\frac{n}{2}\right) \text{ or } \left(\frac{n}{2}\right) + 1 = \text{ 5th and 6th element}$$

$$= \frac{10+11}{2} = \frac{21}{2} = 10.5$$

First half

$$Q_1 = \left(\frac{n}{4}\right) + 1 = \left(\frac{10}{2}\right) + 1 = 3^{\text{rd}} \text{ elem}$$

 $Q_1 = 8$ 

Second half

$$Q_3 = \left(\frac{3n}{4}\right) + 1 = 13$$

$$IQR = Q_3 - Q_1$$

$$= 12 - 8$$

$$IQR = 4$$

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$$\text{mean} = \frac{\sum y_i}{n}$$

$$= \frac{6+7+8+9+10+11+11+12+13+14}{10}$$

$$\text{mean} = 10.1$$

Find ans:-

Minimum = 6

 $Q_1 = 8$ 

maximum = 14

 $Q_3 = 12$ 

median = 10.5

IQR = 4

mean = 10.1

mode = 11

Box plot

