

Q1 Box plot.

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[34, 6, 7, 8, 9, 23, 90]

Ans. Step 1: Sort the given data in ascending order.

6, 7, 8, 9, 23, 34, 90

Step 2: Then find median  $Q_2$

$Q_2 = 29$

Step 3: Then find  $Q_1$  and  $Q_3$ .

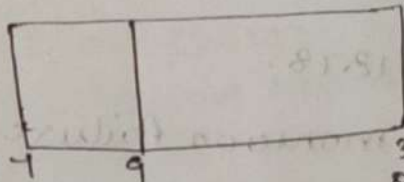
6, 7, 8, 9, 23, 34, 90

median of

median of

this data is  $Q_1$ .

this data is  $Q_3$ .



First  
Quartile

Third  
Quartile

Then find IQR (Interquartile Range).

$$IQR = Q_3 - Q_1$$

$$IQR = 27$$

Then we have to find minimum & maximum to know outliers.

for minimum,  $Q_1 - (IQR \times 1.5)$

$$= 9 - (27 \times 1.5)$$
$$= 9 - 40.5$$

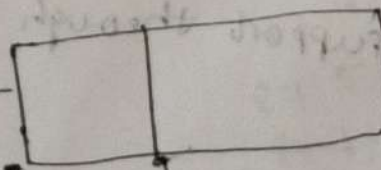
for maximum =

$$Q_3 + (IQR \times 1.5)$$

$$= 34 + (27 \times 1.5)$$

$$= 34 + 40.5 \text{ min}$$

$$= 74.5$$



max

$\therefore$  In this given data 90 is the outlier.