⇒ Box plot 2203A52118

Activity-4

- Step①:- Sort them in ascending or descending order.

X = [1,2,3,4,5,12,13,16]

Y = [1,2,5,9,12,23,50,56]

A = [6,7,8,9,12,12,34]

B = [1,12,13,16,18,19]

C = [3,5,7,8,12,23,78]

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

Step②:- find the value of Q_2 (median) for each Column

X = 4.5

Y = 10.5

A = 9

B = 14.5

C = 8

D = 9

Step③:- Values of Q_1 & Q_3

X → Q_1 → [1,2,3] Q_3 → [12,13,16]

Q_1 → 2 Q_3 → 13

Y → Q_1 → 2 Q_3 → 50

A → Q_1 → 7 Q_3 → 12

B → Q_1 → 6.5 Q_3 → 18.5

C → Q_1 → 5 Q_3 → 23

D → Q_1 → 7 Q_3 → 34

Step④:- find the values of IQR

X → 11

Y → 48

A → 5

B → 12

C → 18

D → 27

Step⑤:- find the max and min values for each Colown to pointout outliers.

Q_1 - (IQR x 1.5) Q_3 + (IQR x 1.5)

X → -14.5 X → 29.5

Y → -70 Y → 122

A → -0.5 A → 19.5

B → -11.5

C → -22

D → -33.5

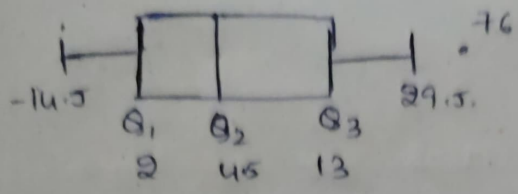
B → 36.5

C → 50

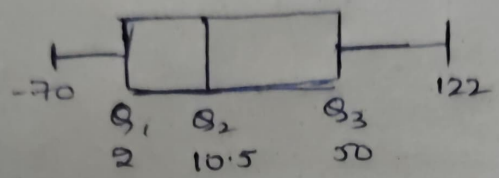
D → 74.5

STEP 6 :- Box plot :-

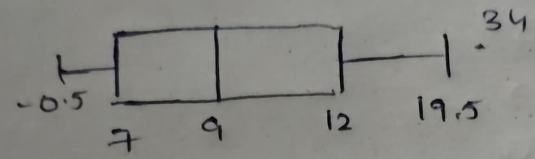
X →



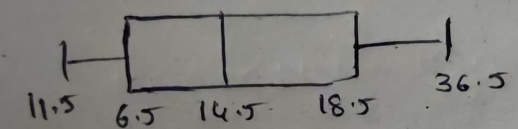
Y →



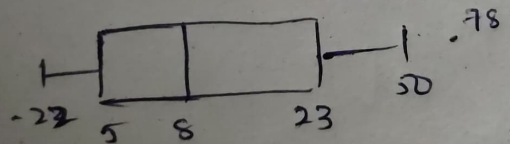
A →



B →



C →



D →