Activity-4

HT no: 22BA52096

X = [1, 2, 3, 4, 5, 12, 13, 76]

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

A = [9, 8, 6, 7, 34, 11, 12]

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

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

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

For X:-

1, 2, 3, 4, 5, 12, 13, 76

Q_1 $Q_2 = 4.5$ Q_3

$IQR = Q_3 - Q_1 = 11$

$w_1 = Q_1 - (IQR * 1.5)$

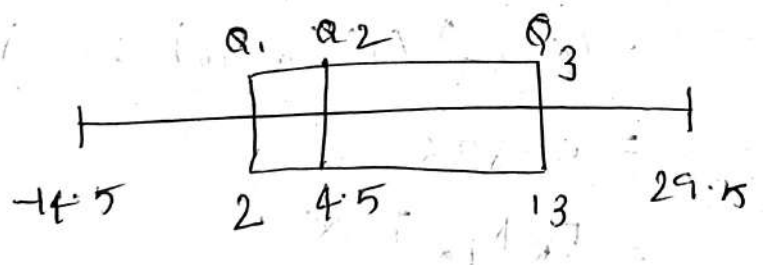
$w_2 = Q_3 + (IQR * 1.5)$

$w_1 = -14.5$

$w_2 = 29.5$

Outliers = 76

positive skew



For Y:-

1, 2, 5, 9, 12, 23, 50, 56

Q_1 = 2, Q_2 = 10.5, Q_3 = 50

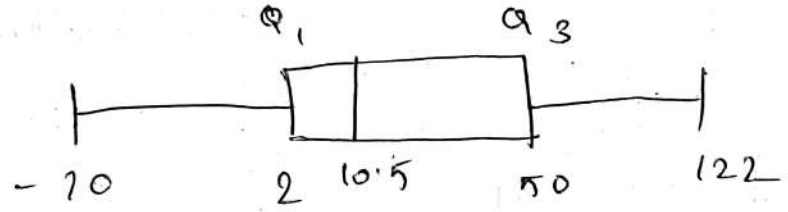
IQR = 48

$w_1 = -70$

$w_2 = 122$

Outliers = –

positive skew



For A:-

6, 7, 8, 9, 11, 12, 34

Q_1 = 7, Q_2 = 9, Q_3 = 12

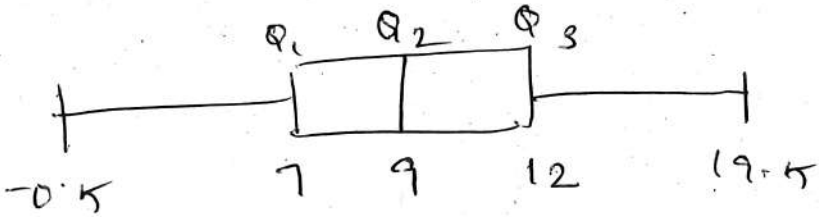
Outliers = 34

normal skew

IQR = 5

$w_1 = -0.5$

$w_2 = 19.5$



For B:-

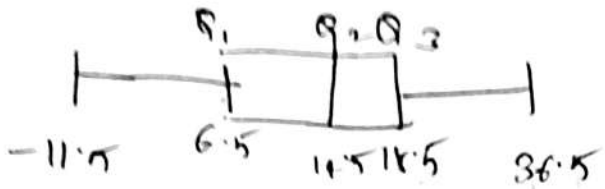
1, 12, 13, 16, 18, 19

Q_1 = 6.5, Q_2 = 14.5, Q_3 = 17.5

IQR = 12

$w_1 = -11.5$

$w_2 = 36.5$



Outliers = —

negative skew

For C :-

3, 5, 7, 8, 12, 23, 28.

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Q_1 Q_2 Q_3

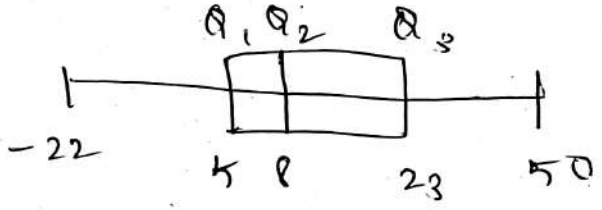
IQR = 18

$\omega_1 = -22$

$\omega_2 = 50$

Outliers = 78

positive skew



For D :-

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

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Q_1 Q_2 Q_3

IQR = 27

$\omega_1 = -33.5$

$\omega_2 = 74.5$

Outliers = 90

positive skew