



Construct and interpret box plots

1

List the values in the upper half of this data set.

60, 44, 63, 44, 3, 63, 66, 37

A 44, 60, 63, 63, 66

B 63, 63, 66

C 3, 37, 44, 44

D 60, 63, 63, 66

2

What is the first quartile (Q_1) of this data set?

26, 29, 30, 34, 34, 46, 56, 88

A
34

B
40.25

C
51

D
29.5

3

What is the third quartile (Q_3) of this data set?

72, 86, 47, 17, 24, 11, 25, 54, 40, 16

A
54

B
35.5

C
32.5

D
17

4

What is the first quartile (Q_1) of this data set? The median of this data set is 54.5.

47, 65, 25, 80, 43, 62, 94, 44

A
72.5

B
43.5

C
58

D
54.5

5

What is the first quartile (Q_1) of this data set? The median of this data set is 35.

44, 34, 6, 33, 44, 27, 37, 35, 50

A
44

B
35

C
37

D
30

6

What is the interquartile range (IQR) of this data set?

Median = 47, $Q_1 = 39$, $Q_3 = 48$

A
87

B
39

C
48

D
9

7

What is the interquartile range (IQR) of this data set?

17, 19, 22, 38, 38, 41, 56, 57, 66, 73

A
35

B
79

C
56

D
57

8

What is the interquartile range (IQR) of this data set?

48, 59, 41, 54, 41, 59, 47, 56, 88, 41

A
47

B
59

C
18

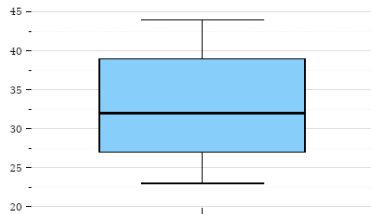
D
100



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9

What is the median of this box plot?



A 27

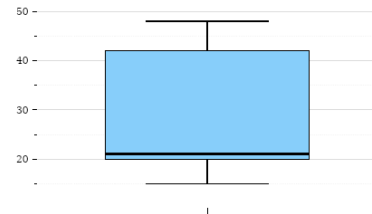
B 32

C 23

D 39

10

What is the median (Q2) of this box plot?



A 42

B 48

C 21

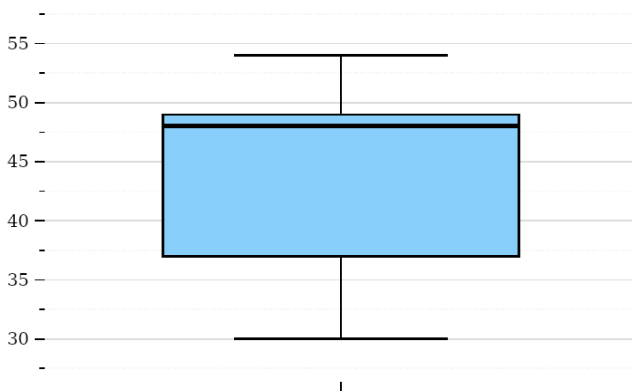
D 15

11

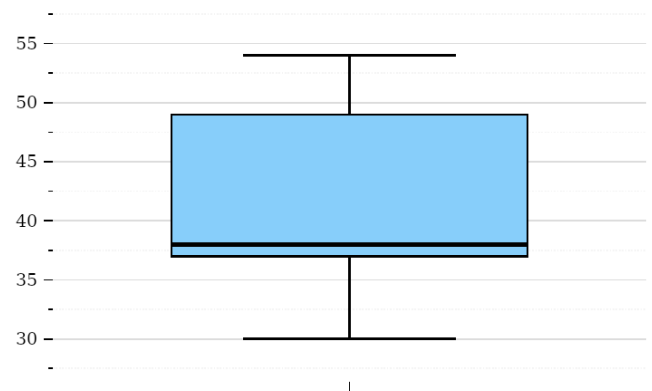
Which box plot has this median, first quartile, and third quartile?

$$\text{Median} = 38, \quad Q_1 = 37, \quad Q_3 = 49$$

A

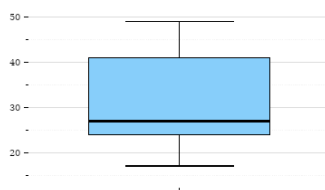


B



12

What is the interquartile range (IQR) of this box plot?



A 41

B 17

C 65

D 32