

Construct and interpret box plots

1

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

97, 42, 49, 65, 26, 57, 40, 48, 40

A 49, 57, 65, 97

B 26, 40, 40, 42, 48

C 26, 40, 40

D 26, 40, 40, 42

2

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

30, 41, 46, 50, 52, 55, 61, 67, 74

A
53.75

B
52

C
64

D
43.5

3

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

7, 34, 34, 35, 35, 39, 46, 49, 53, 54

A
49

B
34

C
37

D
41.5

4

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

Median = 48, $Q_1 = 39$, $Q_3 = 52$

A
52

B
13

C
39

D
91

5

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

24, 30, 51, 51, 57, 66, 78, 87, 89, 91

A
138

B
87

C
67

D
36

6

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

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

A
47

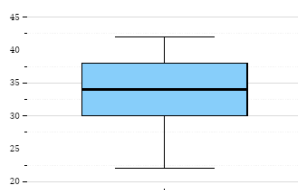
B
100

C
18

D
59

7

What is the first quartile (Q_1) of this box plot?



A 38

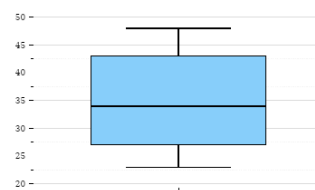
B 30

C 34

D 22

8

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

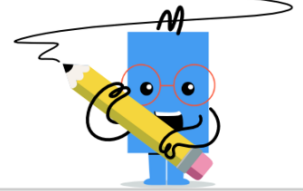


A 16

B 70

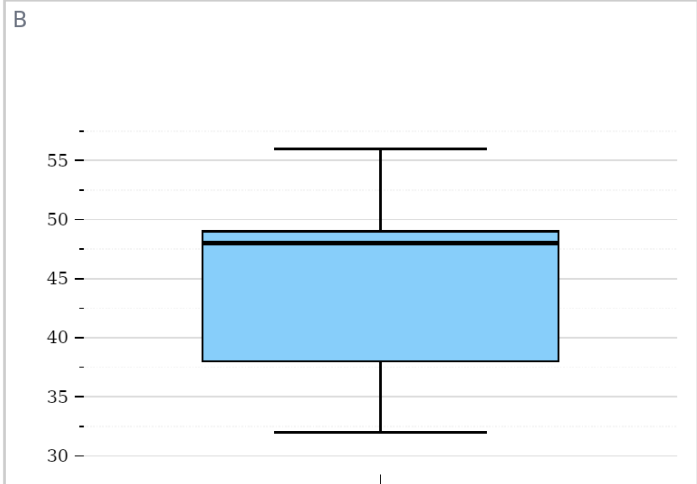
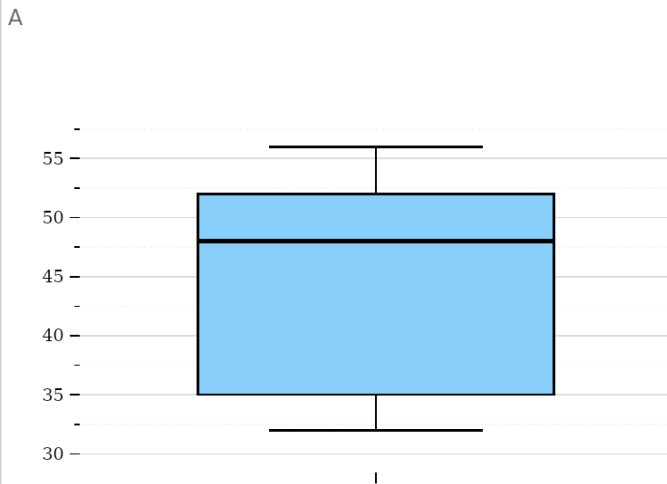
C 43

D 25



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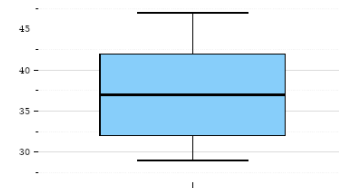
- 9** Which box plot has this median, first quartile, and third quartile?
Median = 48, $Q_1 = 38$, $Q_3 = 49$



- 10** Would a value of 2 be an outlier for this data set?
Median = 32, $Q_1 = 31$, $Q_3 = 49$

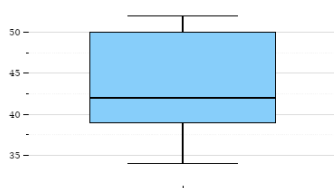
A Yes	B No
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- 11** What is the lower outlier boundary for this box plot?



A 57	B 22	C 17	D 15
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- 12** Would a value of 26 be an outlier for this box plot?



A No	B Yes
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- 13** Is the value 96 an outlier in this data set?
31, 41, 64, 96, 65, 51, 65, 55

A Yes	B No
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