



Identify outliers in a data set

1

Which description means the median would be a better measure of center?

A

The values are all much higher than expected, but they are still close together.

B

One measurement is far larger than all of the others.

2

What is the median (Q_2) of this data set? The median of this data set is 62.5.

16, 18, 40, 49, 57, 68, 68, 74, 74, 83

A

40

B

62.5

C

74

D

57

3

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

85, 22, 18, 75, 69, 83, 14, 65

A

20

B

49.5

C

67

D

79

4

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

58, 39, 39, 8, 31, 32, 32, 32, 51

A

45

B

38.25

C

32

D

31.5

5

What is the third quartile (Q_3) of this data set? The median of this data set is 55.5.

44, 54, 61, 61, 20, 65, 47, 57

A

45.5

B

61

C

55.5

D

53.25

6

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

Median = 41, $Q_1 = 37$, $Q_3 = 48$

A

11

B

37

C

48

D

85

7

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

10, 11, 28, 61, 63, 79, 80, 82, 88

A

78

B

61.5

C

81

D

100.5

8

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

6, 55, 47, 42, 28, 44, 48, 70, 41

A

64

B

51.5

C

86

D

17



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9

What is the lower outlier boundary for this data set?

Median = 38, $Q_1 = 36$, $Q_3 = 52$

A

20

B

24

C

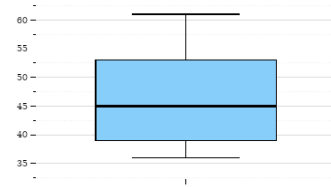
12

D

76

10

What is the upper outlier boundary for this box plot?



A

132.5

B

67

C

74

D

18

11

What is the upper outlier boundary for this data set?

49, 58, 73, 45, 62, 51, 62, 91, 18, 76

A

182.5

B

13

C

97

D

109

12

What is the lower outlier boundary for this data set?

59, 20, 54, 55, 60, 43, 48, 44

A

30

B

20.25

C

23.25

D

77.25

13

Would a value of 73 be an outlier for this data set?

Median = 45, $Q_1 = 29$, $Q_3 = 48$

A

Yes

B

No

14

Is the value 8 an outlier in this data set?

53, 66, 62, 55, 8, 52, 55, 38, 46, 32

A

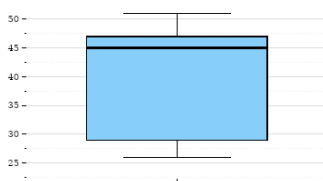
Yes

B

No

15

Would a value of 71 be an outlier for this box plot?



A

Yes

B

No