Box Plots, Quartiles & Outliers · 1

Data: 62, 62, 52, 64, 57, 46, 60, 58, 55, 49. Find the interquartile range (IQR).

Box Plots, Quartiles & Outliers · 2

Data: 46, 42, 39, 73, 46, 38, 46, 48, 51, 53, 38. Find the upper fence, Q3 + 1.5 × IQR.

Box Plots, Quartiles & Outliers · 3

Data: 64, 61, 51, 64, 60, 49, 49, 58, 47, 51, 53. Find the lower fence, Q1 − 1.5 × IQR.

Box Plots, Quartiles & Outliers · 4

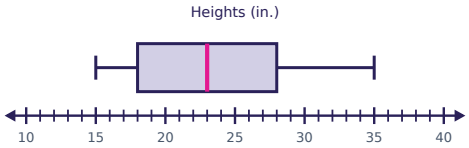
Data: 53, 52, 46, 45, 61, 19, 61, 40, 45, 47, 51. Use the 1.5 × IQR rule to list all the outliers (or write none).

Box Plots, Quartiles & Outliers · 5

Data: 59, 45, 56, 48, 48, 21, 59, 61, 45, 55, 50. Is 61 an outlier by the 1.5 × IQR rule?

Box Plots, Quartiles & Outliers · 6

Use the box plot to find the upper fence, Q3 + 1.5 × IQR.



Box Plots, Quartiles & Outliers · 7

Data: 35, 40, 47, 41, 43, 36, 28, 36, 38, 29, 45. Write the five-number summary (minimum, Q1, median, Q3, maximum).

Box Plots, Quartiles & Outliers · 8

Data: 40, 44, 30, 10, 46, 36, 36, 39, 46. Use the 1.5 × IQR rule to list all the outliers (or write none).

Box Plots, Quartiles & Outliers · 2

ANSWER

69

Box Plots, Quartiles & Outliers · 1

ANSWER

10

Box Plots, Quartiles & Outliers · 4

ANSWER

19

Box Plots, Quartiles & Outliers · 3

ANSWER

31

Box Plots, Quartiles & Outliers · 6

ANSWER

43

Box Plots, Quartiles & Outliers · 5

ANSWER

no

Box Plots, Quartiles & Outliers · 8

ANSWER

10

Box Plots, Quartiles & Outliers · 7

ANSWER

28, 35, 38, 43, 47

Data: 30, 53, 36, 38, 52, 46, 54, 80, 48, 48, 51. Find the interquartile range (IQR).

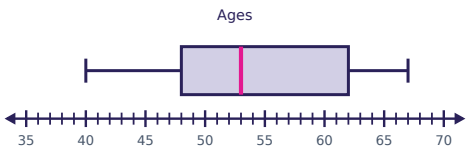
Data: 30, 34, 30, 14, 18, 22, 11, 13, 49, 17, 35. Find the upper fence, Q3 + 1.5 × IQR.

Data: 74, 50, 61, 63, 52, 69, 53, 72, 65, 50. Find the lower fence, Q1 − 1.5 × IQR.

Data: 26, 39, 23, 38, 45, 24, 34, 33, 59, 34. Use the 1.5 × IQR rule to list all the outliers (or write none).

Data: 31, 51, 39, 36, 34, 43, 33, 40, 78, 46, 36. Is 51 an outlier by the 1.5 × IQR rule?

Use the box plot to find the lower fence, Q1 − 1.5 × IQR.



Data: 26, 42, 30, 27, 21, 44, 31, 21, 27, 26, 31. Write the five-number summary (minimum, Q1, median, Q3, maximum).

Data: 93, 44, 25, 31, 40, 28, 46, 44, 50, 29, 32. Use the 1.5 × IQR rule to list all the outliers (or write none).

Box Plots, Quartiles & Outliers · 10

ANSWER

64

Box Plots, Quartiles & Outliers · 9

ANSWER

15

Box Plots, Quartiles & Outliers · 12

ANSWER

59

Box Plots, Quartiles & Outliers · 11

ANSWER

26.5

Box Plots, Quartiles & Outliers · 14

ANSWER

27

Box Plots, Quartiles & Outliers · 13

ANSWER

no

Box Plots, Quartiles & Outliers · 16

ANSWER

93

Box Plots, Quartiles & Outliers · 15

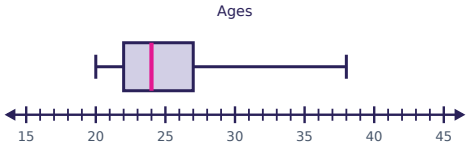
ANSWER

21, 26, 27, 31, 44

Data: 29, 42, 34, 34, 85, 51, 46, 40, 48, 30, 49. Use the 1.5 × IQR rule to list all the outliers (or write none).

Data: 52, 61, 48, 15, 60, 55, 63, 47, 56, 48. Is 63 an outlier by the 1.5 × IQR rule?

Is the maximum, 38, an outlier by the 1.5 × IQR rule?

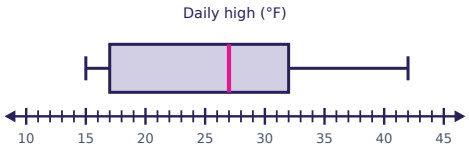


Data: 49, 35, 41, 36, 32, 47, 40, 54, 95, 33. Remove the outlier (by the 1.5 × IQR rule). By how much does the range go down?

Data: 40, 36, 42, 44, 54, 105, 46, 57, 44, 39, 44. Write the five-number summary (minimum, Q1, median, Q3, maximum).

Data: 35, 41, 34, 34, 37, 41, 52, 53, 40, 30. Use the 1.5 × IQR rule to list all the outliers (or write none).

Use the box plot to find the upper fence, Q3 + 1.5 × IQR.



Data: 55, 50, 55, 50, 52, 52, 56, 53, 55. Find the interquartile range (IQR).

Box Plots, Quartiles & Outliers · 18

ANSWER

no

Box Plots, Quartiles & Outliers · 17

ANSWER

85

Box Plots, Quartiles & Outliers · 20

ANSWER

41

Box Plots, Quartiles & Outliers · 19

ANSWER

yes

Box Plots, Quartiles & Outliers · 22

ANSWER

52, 53

Box Plots, Quartiles & Outliers · 21

ANSWER

36, 40, 44, 54, 105

Box Plots, Quartiles & Outliers · 24

ANSWER

4

Box Plots, Quartiles & Outliers · 23

ANSWER

54.5