Box Plots, Quartiles & Outliers · 1

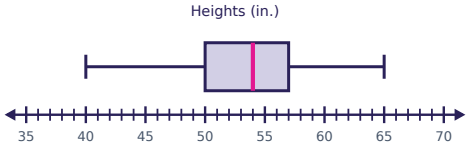
Data: 45, 30, 19, 21, 39, 41, 28, 45, 35, 22, 35. Use the 1.5 × IQR rule to list all the outliers (or write none).

Box Plots, Quartiles & Outliers · 2

Data: 50, 52, 51, 53, 45, 35, 59, 45, 38, 61, 10. Is 10 an outlier by the 1.5 × IQR rule?

Box Plots, Quartiles & Outliers · 3

Is the minimum, 40, an outlier by the 1.5 × IQR rule?



Box Plots, Quartiles & Outliers · 4

Data: 40, 77, 29, 55, 37, 44, 44, 50, 26, 35, 39. Remove the outlier (by the 1.5 × IQR rule). By how much does the range go down?

Box Plots, Quartiles & Outliers · 5

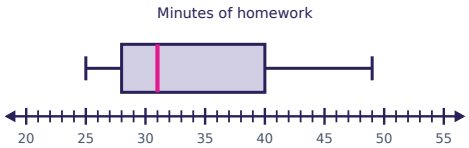
Data: 19, 40, 21, 30, 26, 41, 15, 27, 38. Write the five-number summary (minimum, Q1, median, Q3, maximum).

Box Plots, Quartiles & Outliers · 6

Data: 55, 61, 46, 56, 58, 40, 55, 53, 106, 46, 65. Use the 1.5 × IQR rule to list all the outliers (or write none).

Box Plots, Quartiles & Outliers · 7

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



Box Plots, Quartiles & Outliers · 8

Data: 71, 80, 80, 61, 69, 81, 80, 71, 74, 57, 23, 83. Use the 1.5 × IQR rule to list all the outliers (or write none).

Box Plots, Quartiles & Outliers · 2

ANSWER

yes

Box Plots, Quartiles & Outliers · 1

ANSWER

none

Box Plots, Quartiles & Outliers · 4

ANSWER

22

Box Plots, Quartiles & Outliers · 3

ANSWER

no

Box Plots, Quartiles & Outliers · 6

ANSWER

106

Box Plots, Quartiles & Outliers · 5

ANSWER

15, 20, 27, 39, 41

Box Plots, Quartiles & Outliers · 8

ANSWER

23

Box Plots, Quartiles & Outliers · 7

ANSWER

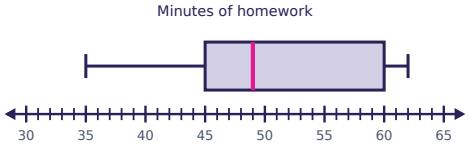
10

Box Plots, Quartiles & Outliers · 9

Data: 48, 55, 40, 109, 45, 48, 67, 36, 47, 55. Is 67 an outlier by the 1.5 × IQR rule?

Box Plots, Quartiles & Outliers · 10

Is the minimum, 35, an outlier by the 1.5 × IQR rule?



Box Plots, Quartiles & Outliers · 11

Data: 39, 28, 30, 33, 41, 46, 21, 30, 118, 36. Remove the outlier (by the 1.5 × IQR rule). By how much does the range go down?

Box Plots, Quartiles & Outliers · 12

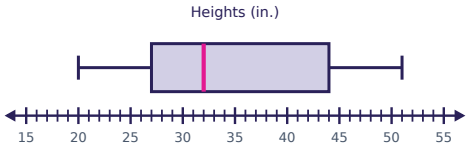
Data: 31, 32, 19, 23, 35, 27, 22, 33, 28, 27. Write the five-number summary (minimum, Q1, median, Q3, maximum).

Box Plots, Quartiles & Outliers · 13

Data: 49, 41, 53, 39, 54, 34, 42, 48, 36, 44, 94. Use the 1.5 × IQR rule to list all the outliers (or write none).

Box Plots, Quartiles & Outliers · 14

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



Box Plots, Quartiles & Outliers · 15

Data: 41, 47, 30, 59, 45, 55, 44, 58, 34, 91. Use the 1.5 × IQR rule to list all the outliers (or write none).

Box Plots, Quartiles & Outliers · 16

Data: 73, 50, 107, 71, 64, 56, 68, 75, 70, 64, 77, 62. Is 50 an outlier by the 1.5 × IQR rule?

Box Plots, Quartiles & Outliers · 10

ANSWER

no

Box Plots, Quartiles & Outliers · 9

ANSWER

no

Box Plots, Quartiles & Outliers · 12

ANSWER

19, 23, 27.5, 32, 35

Box Plots, Quartiles & Outliers · 11

ANSWER

72

Box Plots, Quartiles & Outliers · 14

ANSWER

1.5

Box Plots, Quartiles & Outliers · 13

ANSWER

94

Box Plots, Quartiles & Outliers · 16

ANSWER

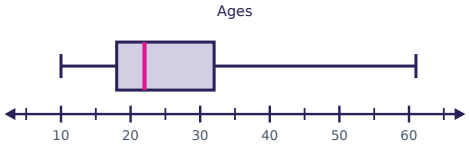
no

Box Plots, Quartiles & Outliers · 15

ANSWER

91

Is the maximum, 61, an outlier by the 1.5 × IQR rule?

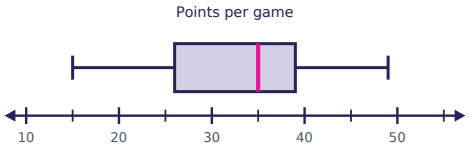


Data: 33, 55, 76, 38, 31, 50, 39, 33, 33, 44, 41. Remove the outlier (by the 1.5 × IQR rule). By how much does the range go down?

Data: 59, 48, 60, 45, 42, 62, 65, 40, 12. Write the five-number summary (minimum, Q1, median, Q3, maximum).

Data: 69, 60, 57, 62, 65, 138, 74, 55, 72, 78. Use the 1.5 × IQR rule to list all the outliers (or write none).

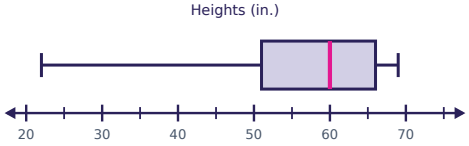
Use the box plot to find the upper fence, Q3 + 1.5 × IQR.



Data: 25, 40, 31, 47, 52, 34, 23, 53, 30, 23, 31. Use the 1.5 × IQR rule to list all the outliers (or write none).

Data: 74, 74, 68, 66, 58, 50, 20, 51, 48, 66, 65. Is 48 an outlier by the 1.5 × IQR rule?

Is the minimum, 22, an outlier by the 1.5 × IQR rule?



Box Plots, Quartiles & Outliers · 18

ANSWER

21

Box Plots, Quartiles & Outliers · 17

ANSWER

yes

Box Plots, Quartiles & Outliers · 20

ANSWER

138

Box Plots, Quartiles & Outliers · 19

ANSWER

12, 41, 48, 61, 65

Box Plots, Quartiles & Outliers · 22

ANSWER

none

Box Plots, Quartiles & Outliers · 21

ANSWER

58.5

Box Plots, Quartiles & Outliers · 24

ANSWER

yes

Box Plots, Quartiles & Outliers · 23

ANSWER

no