Task card 1 Box Plots, Quartiles & Outliers

Data: 36, 36, 36, 45, 47, 48, 48. Write the five-number summary (minimum, Q1, median, Q3, maximum).

Task card 2 Box Plots, Quartiles & Outliers

Data: 40, 42, 48, 49, 49, 50, 53. Find the interquartile range (IQR).

Task card 3 Box Plots, Quartiles & Outliers

Data: 51, 51, 53, 54, 56, 57, 59, 61, 63. Find the range.

Task card 4 Box Plots, Quartiles & Outliers

Data: 15, 19, 20, 23, 23, 27, 36. Find the upper fence, Q3 + 1.5 × IQR.

Task card 5 Box Plots, Quartiles & Outliers

Data: 47, 48, 51, 51, 53, 58, 82. Find the interquartile range (IQR).

Task card 6 Box Plots, Quartiles & Outliers

Data: 40, 41, 46, 46, 46, 51, 53. Find the lower fence, Q1 − 1.5 × IQR.

Task card 7 Box Plots, Quartiles & Outliers

Data: 28, 36, 36, 37, 38, 38, 38, 46. Is 38 an outlier by the 1.5 × IQR rule?

Task card 8 Box Plots, Quartiles & Outliers

Data: 24, 30, 33, 33, 37, 42, 42. Write the five-number summary (minimum, Q1, median, Q3, maximum).

Task card 9 Box Plots, Quartiles & Outliers

Data: 11, 13, 13, 15, 20, 23, 24, 26, 26. Write the five-number summary (minimum, Q1, median, Q3, maximum).

Task card 10 Box Plots, Quartiles & Outliers

Data: 26, 26, 29, 33, 36, 40, 60. Find the interquartile range (IQR).

Task card 11 Box Plots, Quartiles & Outliers

Data: 26, 35, 37, 41, 46, 47, 51. Find the range.

Task card 12 Box Plots, Quartiles & Outliers

Data: 44, 45, 50, 50, 52, 53, 64. Find the upper fence, Q3 + 1.5 × IQR.

Task card 13 Box Plots, Quartiles & Outliers

Data: 15, 19, 24, 27, 29, 31, 31. Find the interquartile range (IQR).

Task card 14 Box Plots, Quartiles & Outliers

Data: 36, 54, 56, 57, 59, 62, 63, 63, 66. Find the lower fence, Q1 − 1.5 × IQR.

Task card 15 Box Plots, Quartiles & Outliers

Data: 10, 11, 11, 12, 13, 18, 20, 39. Is 39 an outlier by the 1.5 × IQR rule?

Task card 16 Box Plots, Quartiles & Outliers

Data: 17, 37, 38, 39, 43, 43, 46. Write the five-number summary (minimum, Q1, median, Q3, maximum).

Task card 17 Box Plots, Quartiles & Outliers

Data: 45, 46, 48, 49, 51, 53, 54, 59, 60, 60, 62. Find the interquartile range (IQR).

Task card 18 Box Plots, Quartiles & Outliers

Data: 42, 44, 47, 49, 49, 50, 59, 59, 59, 59. Find the upper fence, Q3 + 1.5 × IQR.

Task card 19 Box Plots, Quartiles & Outliers

Data: 26, 33, 37, 38, 39, 39, 39, 44. Find the lower fence, Q1 − 1.5 × IQR.

Task card 20 Box Plots, Quartiles & Outliers

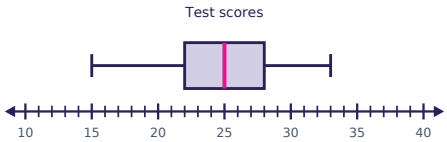
Data: 52, 53, 54, 56, 56, 56, 60, 63, 66, 69, 107. Use the 1.5 × IQR rule to list all the outliers (or write none).

Task card 21 Box Plots, Quartiles & Outliers

Data: 45, 49, 51, 54, 56, 62, 62, 90. Is 90 an outlier by the 1.5 × IQR rule?

Task card 22 Box Plots, Quartiles & Outliers

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



Task card 23 Box Plots, Quartiles & Outliers

Data: 7, 30, 32, 34, 36, 38, 39, 40, 40, 42. Write the five-number summary (minimum, Q1, median, Q3, maximum).

Task card 24 Box Plots, Quartiles & Outliers

Data: 16, 18, 18, 24, 25, 26, 27, 27, 28, 30, 32. Use the 1.5 × IQR rule to list all the outliers (or write none).

Box Plots, Quartiles & Outliers Task Cards

Recording sheet · Grade 9 · Q1 and Q3 are the medians of the lower and upper halves (leave the median out of both halves when there is an odd number of values). A value is an outlier if it is below Q1 - 1.5 × IQR or above Q3 + 1.5 × IQR. Write a list like 3, 7, 10, 14, 20 from least to greatest; write none if there are no outliers; answer yes or no, or A or B, when asked.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Box Plots, Quartiles & Outliers Task Cards: Answer Key

Grade 9 · Easy

The answers online

1. 36, 36, 45, 48, 48	**2.** 8	**3.** 12
4. 39	**5.** 10	**6.** 26
7. no	**8.** 24, 30, 33, 42, 42	**9.** 11, 13, 20, 25, 26
10. 14	**11.** 25	**12.** 65
13. 12	**14.** 43	**15.** yes
16. 17, 37, 39, 43, 46	**17.** 12	**18.** 77
19. 29	**20.** 107	**21.** yes
22. 13	**23.** 7, 32, 37, 40, 42	**24.** none