

Lesson 2-4 • Group 2

Reinforce Understanding

2.4 Small Group • Group 2

I can make and read a box plot to summarize a data set, explain what each part stands for, and build one for a situation I have not seen before.

Worked model

Seven daily high temperatures in degrees are 58, 71, 64, 83, 66, 77, 61. Build the box plot.

1. Order the values: 58, 61, 64, 66, 71, 77, 83.
2. Mark the median, 66 — the middle value of the seven.
3. Lower half 58, 61, 64 gives quartile 1 as 61. Upper half gives quartile 3 as 77.
4. Draw a box from 61 to 77 with a line at 66, then whiskers out to 58 and to 83.

Answer: Five-number summary: 58, 61, 66, 77, 83. The box covers the middle half of the data.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Complete the table.

Complete the table. Show how you found each value.

Measure	Value
Data: 5, 8, 12, 15, 18, 20, 25, 30, 35	
Minimum	
Q1 (median of lower half: 5, 8, 12, 15)	
Median	
Q3 (median of upper half: 20, 25, 30, 35)	
Maximum	
IQR (Q3 – Q1)	

Show your work
