

Lesson 2-4 • Apply Day

Reinforce Understanding

Comparing Box Plots

I can make and read a box plot to summarize a data set.

Worked model

Group A: min 40, Q1 47, median 53, Q3 59, max 66. **Group B:** min 44, Q1 51, median 57, Q3 62, max 71.

1. Compare the medians first: Group A sits at 53 and Group B sits at 57.
2. The group with the higher median has the higher typical value.
3. Compare the boxes: A runs from 47 to 59, and B runs from 51 to 62.
4. A narrower box means the middle half of that group is packed more tightly.

Answer: Group B is typically higher (median 57) and its box is slightly narrower, so it is a bit tighter.

Practice

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

1. Build a five-number summary for 2, 4, 5, 7, 8.

Complete each step, then write the final answer.

1. Minimum and maximum: ____.
2. Median: ____.
3. Write min, Q1, median, Q3, max: ____.

Answer: _____

2. Build a five-number summary for 3, 5, 6, 8, 9.

Complete each step, then write the final answer.

1. Minimum and maximum: ____.
2. Median: ____.
3. Write min, Q1, median, Q3, max: ____.

Answer: _____

3. Build a five-number summary for 4, 6, 7, 7, 10.

Complete each step, then write the final answer.

1. Minimum and maximum: ____.
2. Median: ____.
3. Write min, Q1, median, Q3, max: ____.

Answer: _____