

Lesson 2-9 • Apply Day

Reinforce Understanding

Comparing Sets with MAD

I can find the mean absolute deviation (MAD) to describe how spread out data is.

Worked model

City A highs: 46, 50, 54, 58. City B highs: 36, 48, 56, 68. Each city has a mean of 52.

1. Measure every temperature's distance from the shared mean of 52.
2. City A distances: 6, 2, 2, 6. City B distances: 16, 4, 4, 16.
3. Average each list of distances on its own to get that city's MAD.
4. A larger MAD means the values sit further away from the mean.

Answer: City A has a MAD of 4 and City B a MAD of 10, so City B's highs vary far more.

Practice

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

1. (Lesson 2.1) Classify: “How many minutes did Maya read yesterday?”

Complete each step, then write the final answer.

1. Does the question expect different answers? ____.
2. Classify the question: ____.

Answer: _____

2. (Lesson 2.1) Classify: “How many minutes did each student practice music yesterday?”

Complete each step, then write the final answer.

1. Does the question expect different answers? ____.
2. Classify the question: ____.

Answer: _____

3. (Lesson 2.1) Classify: “How many minutes did Amina walk yesterday?”

Complete each step, then write the final answer.

1. Does the question expect different answers? ____.
2. Classify the question: ____.

Answer: _____