

Lesson 2-9 • Group 2

Reinforce Understanding

2.9 Small Group • Group 2

I can find the mean absolute deviation (MAD) to describe how spread out data is, explain how I can tell, and judge a case I have not seen before.

Worked model

Five snack prices in cents are 80, 90, 100, 110, 120. Find the mean absolute deviation.

1. Find the mean: the five prices total 500, and sharing that evenly gives 100.
2. Measure each price's distance from 100: 20, 10, 0, 10, 20.
3. Add the distances. They come to 60.
4. Share that total distance among the five prices.

Answer: The MAD is 12 cents — a typical price sits about 12 cents away from the mean.

Practice

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

1. Deviation Detective: the quiz scores are 12, 8, 10, 14, 6 and the mean is 10. Complete each deviation and absolute deviation, then compute the MAD.

Complete the table. Show how you found each value.

Score	Deviation (Score – Mean)	Absolute Deviation
12		
8		
10		
14		
6		

Show your work

2. Match each MAD value to what it tells you about the data.

Write the letter of the matching item on each line.

1. _____ MAD = 1.5
2. _____ MAD = 8.0
3. _____ MAD = 0
4. _____ MAD = 4.2

- A Very consistent data
- B Very spread out data
- C All values are identical
- D Moderate spread