

Compare Center Spread and an Outlier



Use the matching sheet ID when checking answers.

Use the material to work through each task. Show the requested response.

1. Find the median.

Answer: 3

2. Find the mean.

Answer: 6

3. Find the range.

Answer: 16

4. If 18 is removed, what is the mean of the remaining values?

Answer: 3

5. Which center better represents the cluster of short times here? Explain.

Look for:

- Connects a center choice to the distribution.

One possible response: The median 3 better describes the cluster because 18 pulls the mean upward.

6. Should a large value automatically be removed?

Look for:

- Does not discard inconvenient data without a reason.

One possible response: No; investigate whether it is valid and relevant before removing it.

Open responses use criteria and an illustrative response. Other well-supported responses can be acceptable.