



Measures of center and variability

GRADE 6 MATH

Name _____

Date _____

Do this on your own — the worked example shows what to do. Show your working; keep exact fractions. One skill: **measures of center and variability**.

WORKED EXAMPLE

Center — mean or median. **Variability** — range or MAD. For the MAD: find the mean, list how far each value is from it (always positive), then average those distances. When one value is far from the rest, the median describes the center better than the mean.

1. Find the mean of 4, 4, 6, 10.

FLUENCY

Show your thinking

Answer

2. Find the median of 4, 4, 6, 10.

FLUENCY

Show your thinking

Answer

3. Find the range of 4, 4, 6, 10.

FLUENCY

Show your thinking

Answer

4. Find the MAD of 4, 4, 6, 10.

APPLICATION

Show your thinking

Answer

5. Find the mean of 20, 21, 22, 97.

APPLICATION

Show your thinking

Answer

6. Find the median of 20, 21, 22, 97.

APPLICATION

Show your thinking

Answer

7. For 20, 21, 22, 97, which measure better describes the center? Explain your choice.

REASONING

Show your thinking

Answer

8. A data set is 5, 5, 5, 5. Find its range and its MAD, and explain what these two zeros tell you.

REASONING

Show your thinking

Answer