



Measures of center and variability

GRADE 6 MATH

Name _____

Date _____

Work in order. Show your working; keep exact fractions rather than rounding. One skill: **measures of center and variability**.

WORKED EXAMPLE

Center — mean (add, divide) or median (middle). **Variability** — range (highest – lowest) or MAD (average distance from the mean). For the MAD: find the mean, find how far each value is from it (always positive), then average those distances.

1. Find the mean of 2, 6, 7, 9.

FLUENCY

Show your thinking

Answer

2. Find the median of 2, 6, 7, 9.

FLUENCY

Show your thinking

Answer

3. Find the range of 2, 6, 7, 9.

FLUENCY

Show your thinking

Answer

4. Find the MAD of 2, 6, 7, 9.

APPLICATION

Show your thinking

Answer

5. Find the mean of 12, 13, 14, 61.

APPLICATION

Show your thinking

Answer

6. Find the median of 12, 13, 14, 61.

APPLICATION

Show your thinking

Answer

7. For 12, 13, 14, 61, which measure better describes the center? Explain your choice.

REASONING

Show your thinking

Answer

8. A student is asked for the center of 3, 4, 5, 6, 7 and answers “4”, having computed $7 - 3$. What did they actually find, and what is the center?

REASONING

Show your thinking

Answer

9. A data set is 7, 7, 7. Find its MAD. What does a MAD of 0 tell you about the data?

REASONING

Show your thinking

Answer