



Center, spread & shape of a distribution

GRADE 6 MATH

Name _____

Date _____

Do this on your own — the worked example shows what to do. Sketch a dot plot where it helps. One skill: **center, spread and shape**.

WORKED EXAMPLE

Center — where the data clusters. **Spread** — highest – lowest. **Shape** — symmetric, or skewed toward the long **tail**. Symmetric means mean = median; a tail drags the mean toward itself, so mean > median points right and mean < median points left.

1. Find the median of 10, 12, 14, 16, 18.

FLUENCY

Show your thinking

Answer

2. Find the spread of 10, 12, 14, 16, 18.

FLUENCY

Show your thinking

Answer

3. Find the mean of 5, 5, 6, 8.

FLUENCY

Show your thinking

Answer

4. Find the median of 5, 5, 6, 8.

APPLICATION

Show your thinking

Answer

5. A data set is 1, 8, 9, 10. Is the mean greater or less than the median? Describe the shape.

REASONING

Show your thinking

Answer

6. Find the mean of 1, 8, 9, 10.

APPLICATION

Show your thinking

Answer

7. Find the median of 1, 8, 9, 10.

APPLICATION

Show your thinking

Answer

8. Find the spread of 1, 8, 9, 10, then explain what the spread does and does not tell you here.

REASONING

Show your thinking

Answer