



Summarizing numerical data in context

GRADE 6 MATH

Name _____

Date _____

Do this on your own — the worked example shows what to do. Use the reading data: 10, 15, 15, 20, 20, 20, 25, 25, 30, 30, 35, 95 minutes. Every answer needs units. One skill: **summarizing data in context**.

WORKED EXAMPLE

A summary reports **n**, the **attribute and units**, a **center**, a **variability** measure, and the **shape** with anything striking. Skewed or outliers → median and IQR. Roughly symmetric → the mean is fine.

1. Find the median of the reading data.

FLUENCY

Show your thinking

Answer

2. Find the IQR of the reading data.

FLUENCY

Show your thinking

Answer

3. Now remove the 95-minute value. Does the mean go up or down? Explain without calculating.

APPLICATION

Show your thinking

Answer

4. Calculate the mean of the remaining 11 values.

APPLICATION

Show your thinking

Answer

5. Calculate the median of the remaining 11 values.

APPLICATION

Show your thinking

Answer

6. By how much did the median change when the outlier was removed? By how much did the mean change?

REASONING

Show your thinking

Answer

7. What do those two changes show about the mean and the median?

REASONING

Show your thinking

Answer

8. Write a complete summary of the original 12-value reading data, and name the measures you chose and why.

REASONING

Show your thinking

Answer