



Summarizing numerical data in context

GRADE 6 MATH

Name _____

Date _____

Answer every item. Every numerical answer needs its **units**. Show your working; final answers in the boxes. One skill: **summarizing data in context**.

WORKED EXAMPLE

A complete summary says five things: **how many** observations, **what** was measured and in what **units**, a measure of **center**, a measure of **variability**, and the **shape** including anything striking. Then justify your choice: skewed data or an outlier means report the **median** and **IQR**; roughly symmetric data means the **mean** is fine. A bare number with no units and no n is not a summary.

1. Twelve students recorded minutes read last night: 10, 15, 15, 20, 20, 20, 25, 25, 30, 30, 35, 95. State how many observations there are and what was measured, including units.

FLUENCY

Show your thinking

Answer

2. Find the mean and the median of the reading data.

APPLICATION

Show your thinking

Answer

3. Find the range and the IQR of the reading data.

APPLICATION

Show your thinking

Answer

4. Which measure of center and which measure of variability should be reported for this data, and why? Write a one-sentence summary a teacher could actually use.

REASONING

Show your thinking

Answer