



GRADE 6 · STATISTICS & PROBABILITY · PRACTICE

SUMMARIZING NUMERICAL DATA IN CONTEXT

Today's goal: I can summarize numerical data sets in relation to their context.

Pick your peppers!

Everyone does Mild & Medium. Then climb as high as you can.



Mild

Tan the Turtle



Medium

Digit the Fox



Spicy

Blaze the Dragon

WATCH MR DJ SOLVE

Ten students scored on a 15-point quiz: 8, 9, 9, 10, 10, 10, 11, 11, 12, 12. How many observations, and what was measured?

- 1 There are 10 values.
- 2 The attribute is quiz performance, measured in points on a 15-point quiz.
- 3 Saying 'out of 15' matters — a score of 10 means something quite different out of 100.

Answer: 10 observations; quiz scores in points, out of 15



REMEMBER Report **n**, the **attribute and units**, a **center**, a **variability** measure, and the **shape**.

Choose by shape: skewed or outliers → median and IQR; roughly symmetric → mean is fine. Then say it as a sentence about the real situation.



MILD

Tan the Turtle: Slow and steady. Warm up!

- 1 Find the mean of the quiz scores.

Answer

- 2 Find the median of the quiz scores.

Answer



OOPS ALERT

Careful on #1! The slip Mr DJ sees most: Dropped the units.



MEDIUM

Digit the Fox: Stretch your brain.

- 3 Compare the mean and the median. What does the comparison suggest about the shape?

Answer

- 4 Find the range of the quiz scores.

Answer

- 5 Find the IQR of the quiz scores.

Answer

- 6 Find Q1 and Q3 for the quiz scores.

Answer



SPICY

Blaze the Dragon: Bring the heat!

- 7 Write a complete one- or two-sentence summary of the quiz data that a teacher could use, and say which measures you chose and why.

Answer

- 8 The reading data (12 students, 10 to 95 minutes) needed the median and IQR. This quiz data does not. Explain what is different about the two data sets.

Answer



How did this sheet feel?

☐ Easy for me ☐ Just right ☐ Made me think

Stuck? Watch Mr DJ explain it

“Mean, Median, Mode, and Range Explained Clearly” on
YouTube: [youtube.com/@MathWithMrDJ](https://www.youtube.com/@MathWithMrDJ)

Brain break: daily puzzles

Three new math puzzles every day, free:
puzzles.mathwithmrdj.com