



Reading a graph qualitatively

GRADE 8 MATH

Name _____

Date _____

Words and sketches only. No numbers needed.

WORKED EXAMPLE

Read the axes. Flat means no change. A flattening rise is still increasing. Steadily means straight.

1. A distance-time graph is flat for the first hour. What happened?

FLUENCY

Show your thinking

Answer

2. Sketch: “rises steadily, then stops rising.”

APPLICATION

Show your thinking

Answer

3. Sketch: “falls quickly at first, then more and more slowly.”

APPLICATION

Show your thinking

Answer

4. A graph goes up by 10, then 4, then 1. Increasing or decreasing? Linear or not?

REASONING

Show your thinking

Answer

5. Describe the journey: steep rise, flat, then a fall back to zero.

REASONING

Show your thinking

Answer

6. Explain why a flat section on a distance-time graph cannot mean walking on flat ground.

REASONING

Show your thinking

Answer

7. Why does a qualitative sketch not need a scale?

REASONING

Show your thinking

Answer

8. Two graphs both rise from the same point to the same point. One is straight, one bends upwards. What is different about the journeys?

REASONING

Show your thinking

Answer