

12. Extend your thinking

Name: _____ **Class:** _____ **Date:** _____

1. A relationship is proportional and has $y = 2.75x$. What is y when $x = 8$? What does 2.75 mean in context?

2. Can a proportional relationship have a fractional constant of proportionality? Create an example and explain.

3. A table includes the points (2, 10) and (5, 25). Is that enough information to prove the relationship is proportional? What additional check would you make?

4. A graph is a straight line but does not pass through the origin. Give one real-world context that could produce such a graph.

5. Explain why a proportional relationship can be represented by a straight line, but not every straight-line relationship is proportional.
