GRADE 7 MATH · CLASSWORK · SPECIAL ED

Recognize Graphs of Proportional Relationships

SCORE / 25

01 Part A · Practice

A proportional graph is a straight line through (0, 0); a steeper line has a greater constant of proportionality.

EXAMPLE

Line *A* passes through (0, 0) **and** (2, 8)**. Line *B* passes through** (0, 3) **and** (2, 7)**.**

1. *A*: straight, through the origin: proportional, $k = 8 \div 2 = 4$.
2. *B*: does not pass through (0, 0): not proportional.

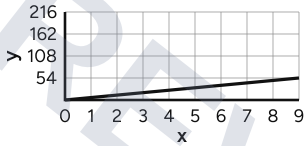
WORDS TO KNOW

proportional graph a straight line through the origin
steeper rises faster; a greater k

1 ●○○

Does the graph show a proportional relationship? Explain.

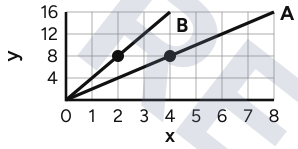
HINT Proportional: a straight line AND it goes through (0, 0).



2 ●○○

Find the constant of proportionality for line *A* and line *B*. Which is greater?

HINT Use the marked point on each line: divide y by x. The steeper line has the greater k.



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Preview - the full worksheet and its answer key are at primeworksheet.com