GRADE 7 MATH · CLASSWORK · SPECIAL ED

Graph to Recognize a Proportional Relationship

SCORE / 25

01 Part A · Practice

The graph of a proportional relationship is a straight line that passes through the origin (0, 0).

EXAMPLE

Is it proportional? (1, 3), (2, 6), (4, 12)

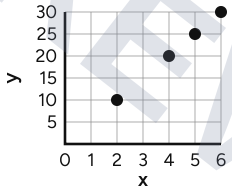
1. Plot the points.
2. They line up on a straight line.
3. The line passes through (0, 0), so it is proportional.

WORDS TO KNOW

origin	the point (0, 0) where the axes meet
proportional graph	a straight line through the origin
ordered pair	a point (x, y)

1 ●○○ Is the graph proportional? Explain.

HINT Do the points lie on a straight line? Would the line pass through (0, 0)?



2 ●○○ Will the graph of $y = 5x + 7$ be a straight line through the origin? Is it proportional?

HINT Find y when x = 0. Is y always a number times x?

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