GRADE 7 MATH · HOMEWORK

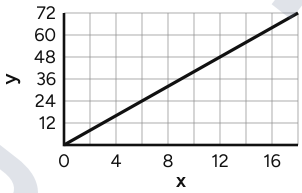
Recognize Graphs of Proportional Relationships

SCORE / 25

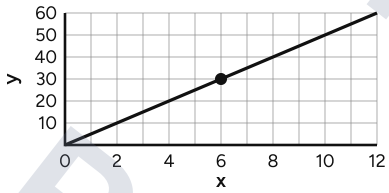
01 Part A · Practice

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

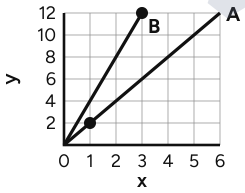
1 ●○○ Does the graph show a proportional relationship? Explain.



2 ●○○ Which equation matches the graph? $y = 5x$, $y = x + 5$, $y = 0.2x$



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



4 ●○○ Line 1 goes through (0, 3) and (1, 7). Line 2 goes through (0, 0) and (1, 4). Which line shows a proportional relationship? Give its *k*.

5 ●○○ Which equation has a graph that is a straight line through the origin: $y = 3.5x$ or $y = 2x + 5$? Give its *k*.

6 ●○○ Line 1 goes through (0, 0) and (5, 15). Line 2 goes through (0, 3) and (5, 18). Which line shows a proportional relationship? Give its *k*.

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