GRADE 7 MATH · CLASSWORK · SPECIAL ED

Interpret the Graph of a Proportional Relationship

SCORE / 25

01 Part A · Practice

On a proportional graph, any point (x, y) gives $k = \frac{y}{x}$; the point $(1, k)$ shows the unit rate.

EXAMPLE

A line through $(0, 0)$ **passes through** $(4, 10)$**. Find** k **and the equation.**

1. $k = 10 \div 4 = 2.5$.
2. The point $(1, 2.5)$ is also on the line: the unit rate.
3. Equation: $y = 2.5x$.

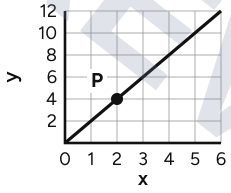
WORDS TO KNOW

constant of proportionality	k = y ÷ x for any point on the line
unit rate	the y-value when x = 1
origin	the point (0, 0)

1 ●○○

The graph shows a proportional relationship. Use point P to find the constant of proportionality.

HINT Read the coordinates of P. Then divide y by x.



2 ●○○

A proportional graph passes through $(2, 8)$. Complete the points $(4, \square)$ and $(\square, 24)$.

HINT Find k first. Multiply to find y; divide to find x.

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