GRADE 7 MATH · CLASSWORK · ADVANCED

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.

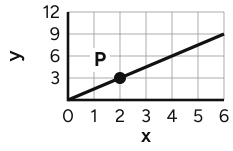
EXAMPLE

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: $y = 2.5x$.

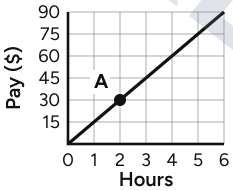
1 ●○○ The graph of a proportional relationship passes through $(8, 18)$. Find k, write the equation, and name the point with $x = 1$.

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



3 ●○○ A proportional graph passes through $(2, 5)$. Complete the points $(4, \square)$ and $(\square, 20)$.

4 ●○○ The graph shows hours and pay. What does point A mean? What is the unit rate?



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