GRADE 7 MATH · CLASSWORK · ADVANCED

Determine Whether y = kx Describes a Situation

SCORE / 25

01 Part A · Practice

A situation is proportional only if it can be written $y = kx$: a constant rate and no starting amount.

EXAMPLE

A gym charges $25 to join plus $5 per visit. Is it $y = kx$?

1. Cost: $c = 5v + 25$.
2. The 25 is a starting amount; $(0, 25)$ is not $(0, 0)$.
3. Not proportional.

1 ●○○ A gym charges $24 to join plus $16 per visit. Is the total proportional? If so, write an equation $y = kx$.

2 ●○○ Does $y = \frac{x}{7}$ represent a proportional relationship? If so, give k.

3 ●○○ Can the table be represented by $y = kx$? If so, write the equation.

x	10	30	65	70
y	24	72	156	168

4 ●○○ Does $y = 6$ represent a proportional relationship? If so, give k.

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