GRADE 7 MATH · CLASSWORK · SPECIAL ED

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.

WORDS TO KNOW

proportional y = kx: a constant rate and no starting amount

starting amount a value already there when x = 0

1 ●○○

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

HINT Check whether y ÷ x is the same in every column.

x	1	4	7
y	7	28	49

2 ●○○

A pool loses 2 gallons per hour. Is the total proportional? If so, write an equation $y = kx$.

HINT Is there a starting amount added on? If yes, it is not proportional.

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