GRADE 7 MATH · HOMEWORK · ADVANCED

Recognize When to Use Proportional Reasoning

SCORE / 25

01 Part A · Practice

Use a proportion only when the quantities have a constant ratio (multiply both by the same factor); not with fees, head starts, or ages.

1 ●○○ A recipe uses 2 cups of flour for 5 dozen cookies. How much flour for 10 dozen? Is this proportional? Solve.

2 ●○○ Is the table proportional? If yes, use it to find y when $x = 84$.

x	12	20	56	60
y	25	39	102	109

3 ●○○ Can you use proportional reasoning (double x → double y) for $y = \frac{x}{5}$? Explain.

4 ●○○ Is the table proportional? If yes, use it to find y when $x = 80$.

x	15	30	40	50
y	12	18	22	26

5 ●○○ Can you use proportional reasoning (double x → double y) for $y = 17x$? Explain.

6 ●○○ A bus travels at a steady 12 miles every 5 minutes. How far in 40 minutes? Is this proportional? Solve.

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