GRADE 7 MATH · HOMEWORK

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 bike rental costs $33 for 4 hours (a $13 fee plus $5 per hour). What does it cost for 2 hours? Is this proportional? Solve.

2 ●○○

Is the table proportional? If yes, use it to find y when $x = 48$.

x	8	18	22	24
y	44	99	121	132

3 ●○○

Can you use proportional reasoning (double x → double y) for $y = 14x$? Explain.

4 ●○○

Is the table proportional? If yes, use it to find y when $x = 13$.

x	1	6	9	11
y	4	14	20	24

5 ●○○

Can you use proportional reasoning (double x → double y) for $y = 5x - 2$? Explain.

6 ●○○

A bike rental costs $28 for 8 hours (a $12 fee plus $2 per hour). What does it cost for 3 hours? Is this proportional? Solve.

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