GRADE 7 MATH · CLASSWORK

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.

EXAMPLE

Mia is 12 **and her brother is** 4**. When Mia is** 24**, how old is he?**

1. Doubling 12 to 24 does NOT double his age.
2. Both get 12 years older: 4 + 12 = 16.
3. Not proportional; answer 16.

1 ●○○ Can you use proportional reasoning (double x → double y) for $y = 12x$? Explain.

2 ●○○ A bus travels at a steady 5 miles every 2 minutes. How far in 6 minutes? Is this proportional? Solve.

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

x	1	4	5	10
y	24	75	92	177

4 ●○○ Can you use proportional reasoning (double x → double y) for $y = 2x$? Explain.

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