GRADE 7 MATH · CLASSWORK · SPECIAL ED

Use Proportions to Solve Problems

SCORE / 25

01 Part A · Practice

Write a proportion with the quantities in the same order on both sides, then solve with cross products or a scale factor.

EXAMPLE

3 **notebooks cost** $7.50**. What do** 8 **cost?**

1. $\frac{3}{7.50} = \frac{8}{x}$.
2. $3x = 8 \times 7.50 = 60$.
3. $x = 20$: $20.

WORDS TO KNOW

proportion two equal ratios, like 3/4 = 6/8

cross products in a/b = c/d, a×d equals b×c

1 ●○○ Solve. $\frac{5}{6} = \frac{15}{x}$

HINT Multiply across: a × x = b × (the other number). Then divide.

2 ●○○ 8 is to 20 as *n* is to 10. Write a proportion and find *n*.

HINT Write a/b = n/d with the numbers. Then solve.

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