GRADE 7 MATH · CLASSWORK · ADVANCED

Use Proportional Reasoning to Solve a Problem

SCORE / 25

01 Part A · Practice

Use a unit rate, a ratio table, or a proportion; check that both ratios compare the quantities in the same order.

EXAMPLE

Green paint is 2 **parts blue to** 3 **parts yellow. How much blue is in** 20 **quarts?**

1. 2 + 3 = 5 parts in all.
2. 20 ÷ 5 = 4 quarts per part.
3. Blue: 2 × 4 = 8 quarts.

1 ●○○ In a scale drawing, 1 cm represents 25 m. A garden is 6.25 cm long in the drawing. What is its actual length?

2 ●○○ The ratio of boys to girls is 6 : 13. There are 299 girls. How many boys and girls are there in all?

3 ●○○ A machine makes 8 bracelets every 12 minutes. How many bracelets does it make in 5 hours?

4 ●○○ In a scale drawing, 1 cm represents 25 m. A parking lot is 162.5 m long. How long is it in the drawing?

5 ●○○ The ratio of trucks to cars is 10 : 7. There are 42 cars. How many trucks and cars are there in all?

6 ●○○ A machine makes 12 toys every 12 minutes. How many toys does it make in 8 hours?

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