GRADE 7 MATH · CLASSWORK · ADVANCED

Apply Proportional Reasoning

SCORE / 25

01 Part A · Practice

Find the unit rate (or scale factor) from any representation (words, table, equation), then multiply or divide.

EXAMPLE

1 **mile** ≈ 1.6 **km. About how many km is** 25 **miles?**

1. The relationship is proportional: $k = 1.6$.
2. $25 \times 1.6 = 40$.
3. About 40 km.

1 ●○○ A recipe uses $1\frac{1}{5}$ cups of broth for $\frac{1}{3}$ serving. How much broth for 2 servings?

2 ●○○ Use 1 kilogram ≈ 2.2 lb. About how many kilograms is 82.5 pounds?

3 ●○○ Car A goes 616 miles on 16 gallons. Car B follows $d = 22g$. Which car gets more miles per gallon? By how much?

4 ●○○ Car A goes 531 miles on 18 gallons. Car B follows $d = 40g$. Which car gets more miles per gallon? By how much?

5 ●○○ Use 1 mile ≈ 1.6 km. About how many miles is 51.2 kilometers?

6 ●○○ A recipe uses $4\frac{1}{2}$ cups of broth for $\frac{1}{2}$ serving. How much broth for 3 servings?

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