GRADE 7 MATH · CLASSWORK · ADVANCED

Decide Whether Quantities are Proportional

SCORE / 25

01 Part A · Practice

Two ratios form a proportion when they are equivalent: same simplest form, same unit rate, or equal cross products.

EXAMPLE

Do $\frac{6}{8}$ and $\frac{15}{20}$ form a proportion?

1. Simplify: $\frac{6}{8} = \frac{3}{4}$, $\frac{15}{20} = \frac{3}{4}$.
2. Or cross products: $6 \times 20 = 120$, $8 \times 15 = 120$.
3. Equal, so yes.

1 ●○○ Are 591 kilometers in 6 hours and 788 kilometers in 8 hours proportional?

2 ●○○ Use cross products. Is $132 : 84 = 77 : 49$?

3 ●○○ Do $\frac{8}{22}$ and $\frac{12}{33}$ form a proportion? Explain.

4 ●○○ Are 1152 kilometers in 8 hours and 1296 kilometers in 9 hours proportional?

5 ●○○ Use cross products. Is $15 : 65 = 33 : 143$?

6 ●○○ Do $\frac{99}{108}$ and $\frac{132}{144}$ form a proportion? Explain.

7 ●○○ Do $\frac{90}{63}$ and $\frac{40}{29}$ form a proportion? Explain.

8 ●○○ Are 675 bottles in 15 minutes and 855 bottles in 19 minutes proportional?

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