GRADE 7 MATH · HOMEWORK

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.

1 ●○○ Do $\frac{90}{81}$ and $\frac{60}{53}$ form a proportion? Explain.

2 ●○○ Use cross products. Is 4 : 10 = 2 : 4?

3 ●○○ Are 544 miles in 8 hours and 680 miles in 10 hours proportional?

4 ●○○ Do $\frac{5}{3}$ and $\frac{40}{24}$ form a proportion? Explain.

5 ●○○ Use cross products. Is 27 : 90 = 24 : 81?

6 ●○○ Are 70 feet in 7 seconds and 124 feet in 12 seconds proportional?

7 ●○○ Are 288 bottles in 9 minutes and 356 bottles in 11 minutes proportional?

8 ●○○ Do $\frac{24}{27}$ and $\frac{32}{35}$ form a proportion? Explain.

9 ●○○ Use cross products. Is 35 : 10 = 49 : 14?

10 ●○○ Use cross products. Is 15 : 10 = 24 : 17?

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