Lesson 8.1 Practice: Ratios, Proportions and the Geometric Mean

School Launch · Geometry · Unit 8: Similarity · Worksheet A

Calculator allowed

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Find the geometric mean of 5 and 20 (simplest radical form). EASY

2. Solve the proportion $\frac{2}{3} = \frac{16}{x}$. EASY

3. Find the geometric mean of 4 and 25 (simplest radical form). EASY

4. Solve the proportion $\frac{x}{24} = \frac{9}{12}$. MEDIUM

5. Find the geometric mean of 3 and 5 (simplest radical form). MEDIUM

6. Solve the proportion $\frac{x}{4} = \frac{5}{2}$. MEDIUM

7. Find the geometric mean of 3 and 12 (simplest radical form). MEDIUM

8. Solve the proportion $\frac{x+11}{7} = \frac{33}{14}$. HARD

9. Find the geometric mean of 2 and 7 (simplest radical form). HARD

10. Solve the proportion $\frac{x+2}{9} = \frac{6}{18}$. HARD