

6.2 Simplifying Ratios

Chapter 6: Ratios, Rates, and Proportional Reasoning

Name: _____

Date: _____

Class/Period: _____

Problem 6.17 Simplify $18 : 30$.

Problem 6.20 Simplify $\frac{1}{2} : \frac{3}{4}$.

Problem 6.18 Simplify $45 : 60$.

Problem 6.21 Simplify $\frac{7}{12} : \frac{5}{18}$.

Problem 6.19 Simplify $16 : 24 : 40$.

Problem 6.22 Simplify $2\frac{1}{4} : 3\frac{3}{8}$.

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Problem 6.23 Simplify $0.8 : 2.4$.

Problem 6.26 Simplify $2 \text{ ft} : 30 \text{ in.}$

Problem 6.24 Simplify $1.25 : 0.75$.

Problem 6.27 Simplify $1.5 \text{ m} : 75 \text{ cm.}$

Problem 6.25 Simplify $0.06 : 0.15$.

Problem 6.28 Explain why $12 : 18$ and $2 : 3$ are equivalent.

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Problem 6.29 A recipe uses $\frac{2}{3}$ cup of oats for $\frac{5}{8}$ cup of nuts. Write the oats-to-nuts ratio in simplest whole-number form.

Problem 6.31 Two boards are $2\frac{1}{2}$ feet and 36 inches long. Find their length ratio in simplest form.

Problem 6.30 A map compares 4 centimeters with 1.5 kilometers. State the ratio with units rather than pretending the units cancel.

Problem 6.32 Create a ratio with decimal terms whose simplest form is $7 : 4$.