REVIEW: Dividing Mixed Numbers

Key Concept and Vocabulary Rewrite as improper fractions. $2\frac{1}{2} \div 1\frac{1}{4} = \frac{5}{2} \div \frac{5}{4}$ Divide $=\frac{5}{2}\times\frac{4}{5}$ $=\frac{20}{10}=2$

Skill Examples



- **4.** $4\frac{1}{6} \div 1\frac{2}{3} = \frac{25}{6} \div \frac{5}{3} = \frac{25}{6} \times \frac{3}{5} = \frac{75}{30} = \frac{5}{2} = 2\frac{1}{2}$

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Name

Visual Model



Application Example

5. You need $2\frac{1}{2}$ inches of ribbon to make a Blue-Ribbon award. How many awards can you make with 35 inches of ribbon?

 $35 \div 2\frac{1}{2} = \frac{35}{1} \div \frac{5}{2} = \frac{35}{1} \times \frac{2}{5} = \frac{70}{5} = 14$

You can make 14 awards.

Check your answers at BigIdeasMath.com.

Find the quotient. Write your answer in simplest form.

- **6.** $4\frac{1}{2} \div 9 =$ ____ **7.** $3\frac{3}{7} \div 8 =$ ____ **8.** $4\frac{2}{2} \div 7 =$ ____ **9.** $1\frac{7}{9} \div 4 =$ ____
- **10.** $8 \div 1\frac{1}{3} =$ ____ **11.** $32 \div 3\frac{1}{5} =$ ____ **12.** $11 \div 2\frac{3}{4} =$ ____ **13.** $9 \div 1\frac{1}{2} =$ ____
- **14.** $5\frac{1}{2} \div \frac{1}{2} =$ ____ **15.** $\frac{1}{2} \div 1\frac{1}{2} =$ ____ **16.** $1\frac{1}{4} \div 1\frac{1}{4} =$ ____ **17.** $3\frac{1}{2} \div 1\frac{1}{3} =$ ____

Find the unknown measure of the rectangle.



- **20. RED RIBBONS** You need $3\frac{1}{2}$ inches of ribbon to make a Red-Ribbon award. How many awards can you make with 35 inches of ribbon?
- 21. SHIPPING You are stacking books into a shipping box that is 15 inches high. Each book is $1\frac{1}{4}$ inches thick. How many books can you fit in a stack?