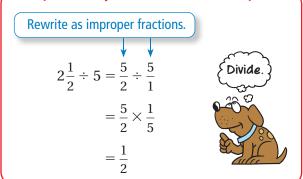
# **REVIEW:** Dividing Mixed Numbers

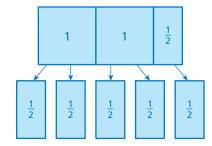
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### Key Concept and Vocabulary -



#### **Visual Model**

Divide  $2\frac{1}{2}$  into five equal parts. Each part is  $\frac{1}{2}$ .  $2\frac{1}{2} \div 5 = \frac{1}{2}$ 



#### Skill Examples

**1.** 
$$5 \div 2\frac{1}{2} = \frac{5}{1} \div \frac{5}{2} = \frac{5}{1} \times \frac{2}{5} = 2$$

**2.** 
$$3\frac{3}{4} \div 2\frac{1}{2} = \frac{15}{4} \div \frac{5}{2} = \frac{15}{4} \times \frac{2}{5} = \frac{3}{2} = 1\frac{1}{2}$$

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

**4.** 
$$7\frac{1}{3} \div 11 = \frac{22}{3} \div \frac{11}{1} = \frac{22}{3} \times \frac{1}{11} = \frac{2}{3}$$

## **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?

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

You can make 14 awards.

# PRACTICE MAKES PURR-FECT™

Check your answers at BigIdeasMath.com.

Find the quotient. Write your answer as a whole or mixed number in simplest form.

**6.** 
$$4\frac{1}{2} \div 9 =$$
 **7.**  $3\frac{3}{7} \div 8 =$  **8.**  $4\frac{2}{3} \div 7 =$  **9.**  $1\frac{7}{9} \div 4 =$ 

7. 
$$3\frac{3}{7} \div 8 =$$
\_\_\_\_\_

**8.** 
$$4\frac{2}{2} \div 7 =$$

**9.** 
$$1\frac{7}{9} \div 4 = \underline{\hspace{1cm}}$$

**10.** 
$$8 \div 1\frac{1}{3} =$$
\_\_\_\_\_

**11.** 
$$32 \div 3\frac{1}{5} =$$

**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.** 
$$5\frac{1}{2} \div \frac{1}{2} =$$

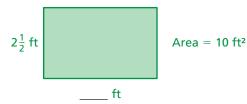
**15.** 
$$\frac{1}{2} \div 1\frac{1}{2} = \underline{\hspace{1cm}}$$

**16.** 
$$1\frac{1}{4} \div 1\frac{1}{4} = \underline{\hspace{1cm}}$$

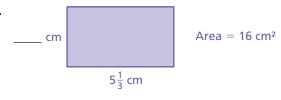
**14.** 
$$5\frac{1}{2} \div \frac{1}{2} =$$
 \_\_\_\_\_ **15.**  $1\frac{1}{2} \div 1\frac{1}{2} =$  \_\_\_\_\_ **16.**  $1\frac{1}{4} \div 1\frac{1}{4} =$  \_\_\_\_\_ **17.**  $3\frac{1}{2} \div 1\frac{1}{3} =$  \_\_\_\_\_

Find the missing dimension.

18.



19.



- **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? \_\_\_\_\_