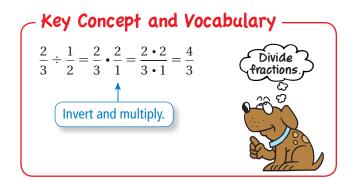
# **REVIEW:** Dividing Fractions

Name



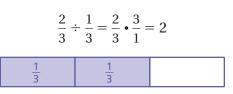
#### **Skill Examples**

- **1.**  $\frac{2}{5} \div \frac{1}{5} = \frac{2}{5} \cdot \frac{5}{1} = \frac{2 \cdot 5}{5 \cdot 1} = 2$
- **2.**  $\frac{2}{5} \div 5 = \frac{2}{5} \cdot \frac{1}{5} = \frac{2 \cdot 1}{5 \cdot 5} = \frac{2}{25}$
- **3.**  $\frac{9}{4} \div \frac{3}{4} = \frac{9}{4} \cdot \frac{4}{3} = \frac{9 \cdot 4}{4 \cdot 3} = 3$
- **4.**  $6 \div \frac{1}{2} = \frac{6}{1} \cdot \frac{2}{1} = \frac{6 \cdot 2}{1 \cdot 1} = 12$



### Visual Model

There are 2 "one-thirds" in two-thirds.



## **Application Example**

5. You drive 25 miles in one-half hour. What is your average rate?

$$25 \div \frac{1}{2} = \frac{25}{1} \cdot \frac{2}{1} = 50 \text{ mi/h} \qquad r = \frac{d}{t}$$

Your average rate is 50 miles per hour.

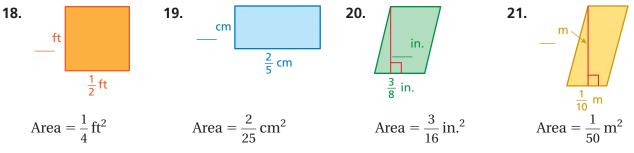
Check your answers at BigIdeasMath.com -



#### Find the quotient. Write your answer in simplified form.

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

Find the height of the rectangle or parallelogram.



**22. SPEED** You drive 15 miles in one-fourth hour. What is your average speed? \_\_\_\_\_

23. MAGNETIC TAPE A refrigerator magnet uses  $\frac{5}{8}$  inch of magnetic tape. How many refrigerator magnets can you make with 10 inches of magnetic tape? Explain.