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.** $6 \div \frac{1}{2} = \frac{6}{1} \cdot \frac{2}{1} = \frac{6 \cdot 2}{1 \cdot 1} = 12$



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.



PRACTICE MAKES PURR-FECT

Find the quotient. Write your answer in simplified form.

6. $\frac{3}{5} \div \frac{1}{5} = \underline{3}$ 7. $4 \div \frac{1}{2} = \underline{8}$ 8. $\frac{2}{3} \div \frac{1}{6} = \underline{4}$ 9. $\frac{1}{6} \div \frac{2}{3} = \underline{\frac{1}{4}}$ 10. $\frac{2}{3} \div 2 = \underline{\frac{1}{3}}$ 11. $\frac{3}{4} \div 4 = \underline{\frac{3}{16}}$ 12. $\frac{3}{7} \div \frac{3}{7} = \underline{1}$ 13. $\frac{3}{7} \div \frac{7}{3} = \underline{\frac{9}{49}}$ 14. $5 \div \frac{1}{2} = \underline{10}$ 15. $\frac{9}{4} \div \frac{1}{4} = \underline{9}$ 16. $\frac{1}{4} \div \frac{1}{2} = \underline{\frac{1}{2}}$ 17. $\frac{3}{11} \div 11 = \underline{\frac{3}{121}}$

Find the height of the rectangle or parallelogram.



22. SPEED You drive 15 miles in one-fourth hour. What is your average speed? <u>60 mi/h</u>

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.

16 magnets; $10 \div \frac{5}{8} = \frac{10}{1} \cdot \frac{8}{5} = \frac{10 \cdot 8}{1 \cdot 5} = 16$