# CHAPTER

# Multiplying and Dividing Fractions and Decimals

# Lesson 3.1 Dividing Fractions

Express each improper fraction as a mixed number in simplest form.

**1.**  $\frac{18}{5}$  **2.**  $\frac{27}{6}$  **3.**  $\frac{34}{9}$ 

#### Express each mixed number as an improper fraction.

**4.**  $4\frac{1}{6}$  **5.**  $5\frac{2}{7}$  **6.**  $9\frac{3}{8}$ 

#### Find each product in simplest form.

**7.**  $\frac{2}{7} \times \frac{4}{9}$  **8.**  $\frac{12}{17} \times \frac{34}{3}$  **9.**  $\frac{15}{8} \times \frac{64}{9}$ 

#### Divide. Draw a model to help you.

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#### Solve. Draw a model to find each quotient.

Example					
Joshua cuts 3 strings into a number of equal pieces. Each piece is $\frac{1}{2}$ of a string. Into how many pieces does Joshua cut the 3 strings?					
Number of halves in 3 wholes = .	3	_÷_	<u>1</u> 2		
=.	3	_ × _	2		
= .	6				
Joshua cuts the string into <u>6</u>	pie	eces.			

Date: \_\_

**13.** A jar contains 6 liters of water. It is poured equally into some bottles. Each bottle contains  $\frac{1}{7}$  liter of water. How many bottles are there?



**14.** George cut 7 tiles into pieces that were each  $\frac{1}{9}$  of a tile. Into how many pieces did George cut the 7 tiles?



#### Divide. Express the quotient in simplest form.

D	a	t	е	•	
-	~	•	~	•	



#### Solve. Draw a model to find each quotient.

Name: \_

**19.** Alex is painting some sculptures. He uses  $\frac{4}{9}$  of a tube of paint for each sculpture. How many similar sculptures can he paint with 12 such tubes of paint?

Divide. Express the quotient in simplest form.





#### Solve. Show your work.



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**23.** A rectangle has an area of  $\frac{4}{5}$  square meter. The width of the rectangle is  $\frac{4}{15}$  meter. What is its length?



Number of four-fifteenths in four-fifths = \_\_\_\_\_ ÷ \_\_\_\_\_

The length of the rectangle is \_\_\_\_\_ meters.

**24.** Ben has  $\frac{5}{16}$  of a pizza left. He cuts it into equal pieces, each  $\frac{5}{48}$  of the whole pizza. Into how many pieces has Ben cut the pizza?

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=

= \_\_\_\_\_ × \_\_

### Find each quotient. Write your answer in simplest form.



**25.**  $\frac{5}{16} \div \frac{7}{4}$ 

= ×	Rewrite as a multiplication expression.
= ×	Divide a numerator and a denominator by their common factor.
=	
<b>26.</b> $\frac{9}{11} \div \frac{6}{5}$	<b>27.</b> $\frac{6}{10} \div \frac{3}{2}$

#### Find each quotient. Write your answer in simplest form.



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## Find each quotient. Write your answer in simplest form.

