

CHAPTER
4

Multiplying and Dividing Fractions and Mixed Numbers

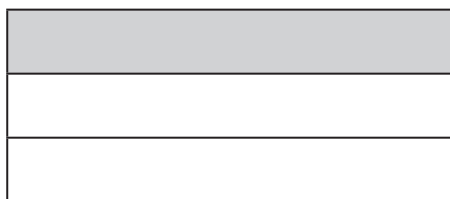
Worksheet 1 Multiplying Proper Fractions

Look at the models. Follow the steps and fill in the blanks.

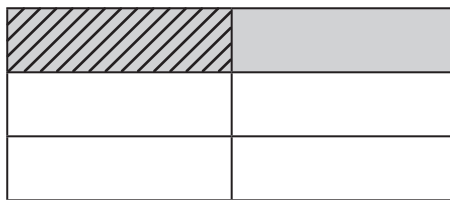
Example

What is the value of $\frac{1}{2}$ of $\frac{1}{3}$?

Step 1 A rectangle is divided into thirds. Shade $\frac{1}{3}$ of it.



Step 2 Draw stripes over $\frac{1}{2}$ of the shaded portion.



$\frac{1}{6}$ of the rectangle has stripes drawn over the shaded portion.

$\frac{1}{2}$ of $\frac{1}{3}$ is $\frac{1}{6}$.

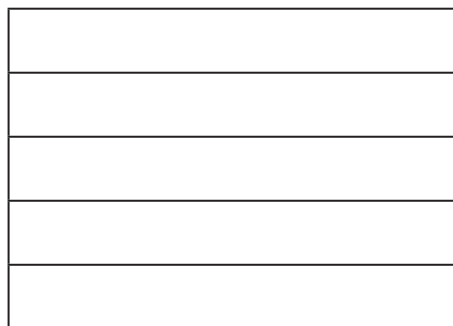
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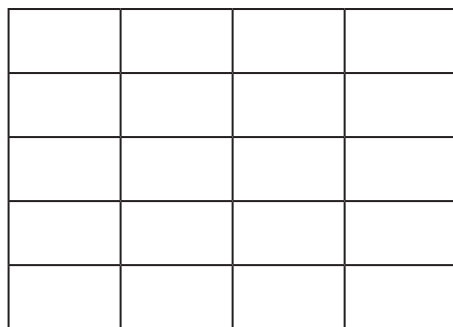
Look at the models. Follow the steps and fill in the blanks.

1. What is the value of $\frac{1}{4}$ of $\frac{2}{5}$?

Step 1 A rectangle is divided into fifths. Shade $\frac{2}{5}$ of it.



Step 2 Draw stripes over $\frac{1}{4}$ of the shaded portion.



of the rectangle has stripes drawn over the shaded portion.

$\frac{1}{4}$ of $\frac{2}{5}$ is .

Name: _____

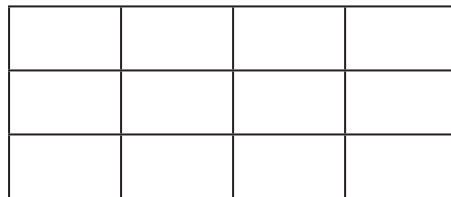
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2. What is the value of $\frac{3}{4}$ of $\frac{2}{3}$?

Step 1 A rectangle is divided into thirds. Shade $\frac{2}{3}$ of it.



Step 2 Draw stripes over $\frac{3}{4}$ of the shaded portion.



of the rectangle has stripes drawn over the shaded portion.

$\frac{3}{4}$ of $\frac{2}{3}$ is .

Complete.

Example

$$\frac{1}{2} \text{ of } \frac{3}{4} = \frac{1}{2} \times \frac{3}{4}$$

3. $\frac{1}{5}$ of $\frac{2}{3} =$ \times

4. $\frac{1}{3}$ of $\frac{7}{8} =$ \circ

5. $\frac{1}{4}$ of $\frac{5}{9} =$ \circ

Name: _____

Date: _____

Complete.

Example

$$\frac{1}{3} \times \frac{5}{8} = \frac{1}{3} \text{ of } \frac{5}{8}$$

6. $\frac{3}{4} \times \frac{7}{12} =$ of

7. $\frac{1}{2} \times \frac{4}{9} = \frac{1}{2}$ _____ $\frac{4}{9}$

8. $\frac{2}{5} \times \frac{1}{6} =$ of

Multiply. Express each product in simplest form.

Example

$$\frac{1}{2} \times \frac{1}{3} = \frac{\boxed{1} \times \boxed{1}}{\boxed{2} \times \boxed{3}} \leftarrow \begin{array}{l} \text{Multiply the numerators.} \\ \text{Multiply the denominators.} \end{array}$$
$$= \frac{\boxed{1}}{\boxed{6}}$$

9. $\frac{3}{4} \times \frac{5}{7} = \frac{\boxed{} \times \boxed{}}{\boxed{} \times \boxed{}} = \frac{\boxed{}}{\boxed{}}$

10. $\frac{2}{5} \times \frac{2}{9} = \frac{\boxed{} \times \boxed{}}{\boxed{} \times \boxed{}} = \frac{\boxed{}}{\boxed{}}$

11. $\frac{5}{6} \times \frac{1}{3} = \frac{\boxed{} \times \boxed{}}{\boxed{} \times \boxed{}} = \frac{\boxed{}}{\boxed{}}$

Multiply. Express each product in simplest form.*Example*

$$\frac{1}{3} \times \frac{6}{7} = \frac{\boxed{1} \times \boxed{2}}{\boxed{1} \times \boxed{7}}$$

$$= \frac{\boxed{2}}{\boxed{7}}$$

This is another way to multiply fractions. Divide a numerator and a denominator by the **common factor** 3.

$$\frac{1}{3} \times \frac{6}{7} = \frac{1}{3 \div 3} \times \frac{6 \div 3}{7}$$

$$= \frac{1}{1} \times \frac{2}{7}$$



12. $\frac{1}{2} \times \frac{4}{5} = \frac{\boxed{} \times \boxed{}}{\boxed{} \times \boxed{}}$

$$= \frac{\boxed{}}{\boxed{}}$$

13. $\frac{2}{5} \times \frac{3}{8} = \frac{\boxed{} \times \boxed{}}{\boxed{} \times \boxed{}}$

$$= \frac{\boxed{}}{\boxed{}}$$

14. $\frac{3}{4} \times \frac{7}{12} = \frac{\boxed{} \times \boxed{}}{\boxed{} \times \boxed{}}$

$$= \frac{\boxed{}}{\boxed{}}$$

15. $\frac{3}{4} \times \frac{8}{9} = \frac{\boxed{} \times \boxed{}}{\boxed{} \times \boxed{}}$

$$= \frac{\boxed{}}{\boxed{}}$$

Name: _____

Date: _____

Multiply. Express each product in simplest form.

16. $\frac{1}{6} \times \frac{8}{9}$

17. $\frac{1}{3} \times \frac{6}{7}$

18. $\frac{4}{9} \times \frac{7}{12}$

19. $\frac{3}{5} \times \frac{11}{12}$

20. $\frac{4}{7}$ of $\frac{5}{12}$

21. $\frac{3}{4}$ of $\frac{2}{3}$

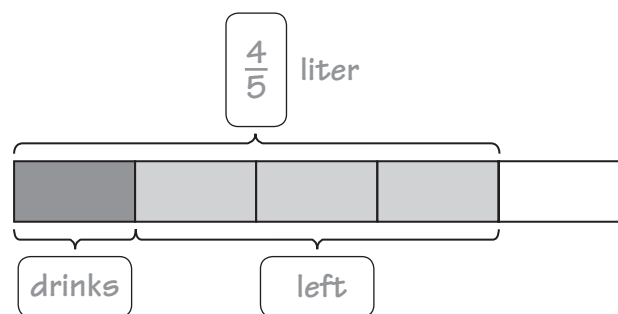
Worksheet 2 Real-World Problems: Multiplying with Proper Fractions

Complete each model to show the statements.

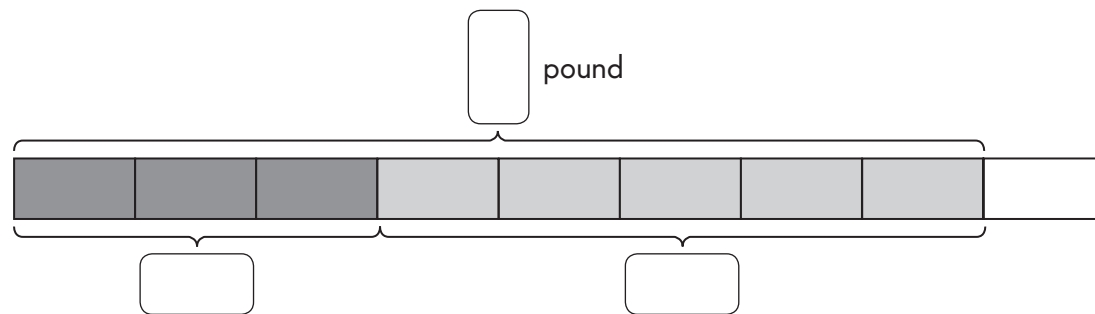
Example

A bottle contains $\frac{4}{5}$ liter of juice.

Amy drinks $\frac{1}{4}$ of the juice.



1. Mrs. Costa bought $\frac{8}{9}$ pound of beef.
She cooked $\frac{3}{8}$ of the beef.



Name: _____

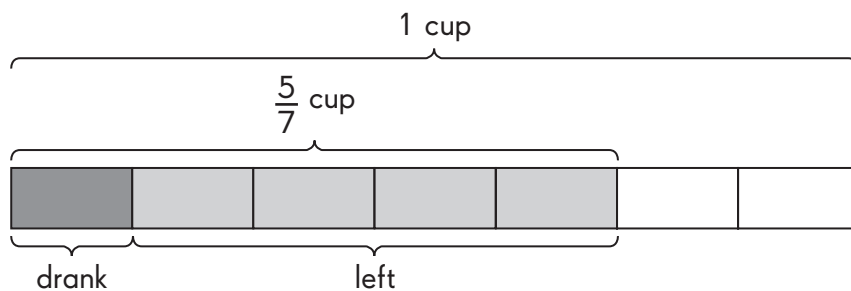
Date: _____

Draw a model to show the statements.

2. Harry had $\frac{7}{8}$ meter of ribbon.
He used $\frac{2}{7}$ of the ribbon to tie a gift.

Solve. Use a model to help you.

3. Sarah poured $\frac{5}{7}$ cup of milk into a glass. She drank $\frac{1}{5}$ of it.
a. How much milk did she drink?



From the model,

7 units \longrightarrow _____ cup

1 unit \longrightarrow _____ cup

She drank _____ cup of milk.

- b. How much milk was left?

4 units \longrightarrow _____ cup

_____ cup of milk was left.

Name: _____

Date: _____

Solve. Use a model to help you.

4. A farmer had $\frac{3}{4}$ of a bag of seeds. He planted $\frac{2}{3}$ of the seeds.

a. What fraction of the bag of seeds did the farmer plant?

Model:

From the model,

_____ units → _____

1 unit → _____

_____ units → _____

He planted _____ of a bag of seeds.

b. What fraction of the bag of seeds was left?

_____ unit → _____

_____ of a bag of seeds was left.

Name: _____

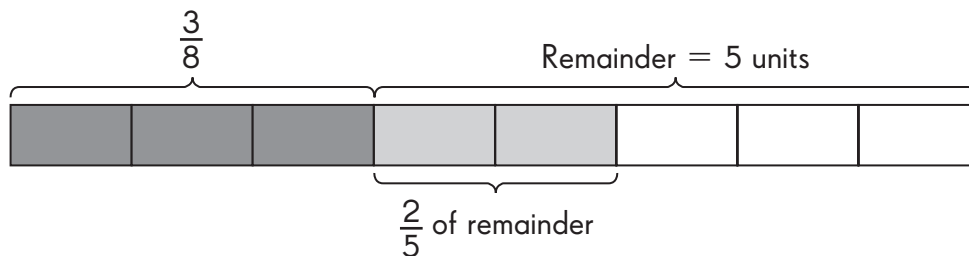
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Complete each model to show the statements.

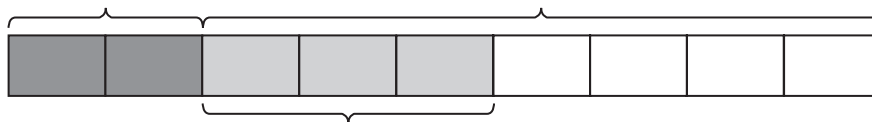
Example

Barry bought a box of fruit. Of the fruit, $\frac{3}{8}$ were apples.

Of the remainder, $\frac{2}{5}$ were oranges.



- 5.** Cindy collects Canadian, U.S., and British coins. Of the coins, $\frac{2}{9}$ are Canadian. Of the remainder, $\frac{3}{7}$ are British coins.



- 6.** Jessica had some money. She spent $\frac{4}{9}$ of her money on food and $\frac{3}{10}$ of the remainder on drinks.



Name: _____

Date: _____

Solve. Use models to help you.

- 7.** Mike has an aquarium. Of the fish in his aquarium, $\frac{2}{5}$ are clownfish.
Of the remaining fish, $\frac{1}{3}$ are damselfish.

a. What fraction of Mike's fish are damselfish?

--	--	--	--	--

b. What fraction of his fish are not clownfish or damselfish?

- 8.** Lillian collects stickers. Of her collection, $\frac{5}{12}$ are animal stickers.
Of the remainder, $\frac{5}{14}$ are flower stickers.

a. What fraction of Lillian's stickers are flower stickers?

b. What fraction of her stickers are not animal or flower stickers?

Name: _____

Date: _____

Solve. Use the fraction method.

9. Zach walked his dog for $\frac{7}{8}$ hour. They spent $\frac{1}{2}$ of the time at the beach.
How much time did Zach and his dog spend at the beach?

$$\frac{1}{2} \times \frac{7}{8} = ?$$



10. Mrs. Jenkins picked some tomatoes from her garden. She used $\frac{5}{9}$ of the tomatoes to make pasta sauce. Then she used $\frac{3}{4}$ of the remainder to make a salad. What fraction of the tomatoes did Mrs. Jenkins use to make the salad?

Worksheet 3 Multiplying Improper Fractions by Fractions

Simplify each improper fraction.

1. $\frac{18}{8} = \frac{\boxed{}}{\boxed{}}$

$$18 \div 2 = \underline{\quad 9 \quad}$$

$$8 \div 2 = \underline{\quad 4 \quad}$$



2. $\frac{27}{6} = \frac{\boxed{}}{\boxed{}}$

$$27 \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$6 \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$



3. $\frac{42}{24} = \frac{\boxed{}}{\boxed{}}$

$$42 \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$24 \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$



4. $\frac{56}{32} = \frac{\boxed{}}{\boxed{}}$

$$56 \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$32 \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$



Complete.*Example*

$$\frac{2}{3} \times \frac{18}{5} = \frac{\boxed{2} \times \boxed{6}}{\boxed{1} \times \boxed{5}}$$

$$= \frac{\boxed{12}}{\boxed{5}}$$

$$= \boxed{2\frac{2}{5}}$$

Divide a numerator and a denominator by the common factor 3.

$$\frac{2}{3} \times \frac{18}{5} = \frac{2}{3 \div 3} \times \frac{18 \div 3}{5}$$

$$= \frac{2 \times 6}{1 \times 5}$$



5. $\frac{1}{2} \times \frac{8}{7} = \frac{\boxed{} \times \boxed{}}{\boxed{} \times \boxed{}}$

$$= \frac{\boxed{}}{\boxed{}}$$

6. $\frac{5}{4} \times \frac{3}{20} = \frac{\boxed{} \times \boxed{}}{\boxed{} \times \boxed{}}$

$$= \frac{\boxed{}}{\boxed{}}$$

7. $\frac{5}{4} \times \frac{16}{3}$

8. $\frac{5}{4} \times \frac{12}{13}$

9. $\frac{7}{8} \times \frac{12}{7}$

10. $\frac{14}{9} \times \frac{18}{7}$

Answer each question.

11. $F \times \frac{8}{3}$

 F is a proper fraction.

- a.**
- Find a value of
- F
- so that the product is less than 1.

$F =$

- b.**
- Find a value of
- F
- so that the product is greater than 1.

$F =$

12. $\frac{15}{4} \times K$

 K is a proper fraction.

- a.**
- Find a value of
- K
- so that the product is less than 1.

$K =$

- b.**
- Find a value of
- K
- so that the product is greater than 1.

$K =$

13. $2 \times M$

 M is an improper fraction.

- a.**
- Find a value of
- M
- so that the product is less than 2 but more than 1.

$M =$

- b.**
- Find a value of
- M
- so that the product is greater than 1.

$M =$

Name: _____

Date: _____

14. $N \times 5$

N is an improper fraction.

- a.** Find a value of N so that the product is more than 1 but less than 5.

$N =$

- b.** Find a value of N so that the product is greater than 1.

$N =$

15. $W \times S$ is a product of a whole number and an improper fraction.

W is a whole number. S is an improper fraction.

Which do you think is greatest: W , S , or $W \times S$?

Give your reasons.

Complete.

16. $5 \times 4 =$ _____ groups of _____

17. $12 \times 7 =$ _____ groups of _____

Name: _____

Date: _____

Write in addition.

18. $2 \times 3 =$ _____ groups of _____
 $=$ _____ + _____

19. $3 \times 6 =$ _____ groups of _____
 $=$ _____ + _____ + _____

Write in addition.

20. $4 \times \frac{1}{2} =$ _____ groups of _____
 $=$ _____ + _____ + _____ + _____
 $=$ _____

21. $3 \times \frac{1}{4} =$ _____ groups of _____
 $=$ _____ + _____ + _____
 $=$ _____

Name: _____

Date: _____

Without calculating, answer each question. Explain your reasoning.

22. Which is greater? 5×4 or 5 or 4?

23. Which is greater? $3 \times \frac{1}{2}$ or 3 or $\frac{1}{2}$?

Answer the question. Then, give your reasons.

24. Are the following statements true or false?

- a.** The product of a whole number by a proper fraction is always greater than the whole number.

- b.** The factor fraction is the smallest among the factors and the product. (Assuming none of the factors is a whole number.)

Worksheet 4 Multiplying Mixed Numbers and Whole Numbers

Write each mixed number as an improper fraction.

1. $3\frac{2}{5} = \frac{\boxed{}}{\boxed{}}$

2. $2\frac{7}{9} = \frac{\boxed{}}{\boxed{}}$

Write the product as an improper fraction.

3. $\frac{6}{5} \times 2 = \frac{\boxed{}}{\boxed{}}$

4. $\frac{9}{4} \times 5 = \frac{\boxed{}}{\boxed{}}$

Write each improper fraction as a mixed number.

5. $\frac{12}{5} = \frac{10}{5} + \frac{2}{5}$
 $= \boxed{} + \boxed{}$
 $= \boxed{}$

6. $\frac{15}{8} = \boxed{} + \boxed{}$
 $= \boxed{} + \boxed{}$
 $= \boxed{}$

Name: _____

Date: _____

**Divide. Find the quotient and remainder.
Then write the answer as a mixed number.**

7.
$$\begin{array}{r} 2 \overline{) 9} \\ \underline{8} \\ 1 \end{array}$$

Quotient = 4

Remainder = 1

$$\frac{9}{2} = 4 \frac{\boxed{}}{\boxed{2}}$$

8.
$$\begin{array}{r} \boxed{} \\ 3 \overline{) 10} \\ \underline{} \\ \boxed{} \\ \underline{} \\ \boxed{} \end{array}$$

Quotient = _____

Remainder = _____

$$\frac{10}{3} = \boxed{} \frac{\boxed{}}{\boxed{}}$$

9.
$$\begin{array}{r} \boxed{} \\ 4 \overline{) 13} \\ \underline{\boxed{} \boxed{}} \\ \boxed{} \end{array}$$

Quotient = _____

Remainder = _____

$$\frac{13}{4} = \boxed{} \frac{\boxed{}}{\boxed{}}$$

10.
$$\begin{array}{r} \boxed{} \\ 5 \overline{) 28} \\ \underline{\boxed{} \boxed{}} \\ \boxed{} \end{array}$$

Quotient = _____

Remainder = _____

$$\frac{28}{5} = \boxed{} \frac{\boxed{}}{\boxed{}}$$

Name: _____

Date: _____

Complete.

Example

$$3\frac{1}{2} \times 5 = \frac{\boxed{7}}{\boxed{2}} \times 5$$

$$= \frac{\boxed{35}}{\boxed{2}}$$

$$= \boxed{17} \frac{\boxed{1}}{\boxed{2}}$$

$3\frac{1}{2} = \frac{7}{2}$ ○○



11. $4\frac{2}{5} \times 3 = \frac{\boxed{}}{\boxed{}} \times 3$

$$= \frac{\boxed{}}{\boxed{}}$$

$$= \boxed{} \frac{\boxed{}}{\boxed{}}$$

12. $5\frac{1}{3} \times 4 = \frac{\boxed{}}{\boxed{}} \times 4$

$$= \frac{\boxed{}}{\boxed{}}$$

$$= \boxed{} \frac{\boxed{}}{\boxed{}}$$

Name: _____

Date: _____

Multiply. Express the product as a whole number or a mixed number in simplest form.

13. $2\frac{8}{13} \times 2$

14. $8 \times 2\frac{4}{7}$

15. $9 \times 4\frac{3}{4}$

16. $7\frac{2}{5} \times 10$

Name: _____

Date: _____

Complete.

17. $\blacktriangle \times 2\frac{2}{3}$

\blacktriangle can be a fraction or a whole number.

a. Find a value of \blacktriangle so that the product is greater than 1. $\blacktriangle =$

b. Find a value of \blacktriangle so that the product is the same as 1. $\blacktriangle =$

c. Find a value of \blacktriangle so that the product is smaller than 1. $\blacktriangle =$

18. $\bullet \times 1\frac{7}{8}$

\bullet can be a fraction or a whole number.

a. Find a value of \bullet so that the product is greater than 1. $\bullet =$

b. Find a value of \bullet so that the product is the same as 1. $\bullet =$

c. Find a value of \bullet so that the product is smaller than 1. $\bullet =$

Name: _____

Date: _____

Solve.

19. ■ × ★ is a product of whole number and mixed number.

■ is a whole number. ★ is a mixed number.

Can you say that the product is the greatest as compared with ■ and ★?

Give your reasons.

20. ■ is a whole number greater than 1.

♥ is a fraction less than 1.

♦ is a mixed number.

Tell whether each product can be less than one, one, or greater than one.

Write *yes* or *no*. The first one is done for you.

Factors	Product can be less than 1.	Product can be 1.	Product can be greater than 1.
♦ × ♦	no	no	yes
■ × ♦			
■ × ♥			
♦ × ♥			
♥ × ♥			

Name: _____

Date: _____

Worksheet 5 Real-World Problems: Multiplying with Mixed Numbers

Solve. Show your work.

1. Juan has 8 rabbits. He wants to give $1\frac{1}{4}$ carrots to each rabbit.
How many carrots does Juan need?

_____ \times _____ = _____

Juan needs _____ carrots.

$1\frac{1}{4} = \frac{5}{4}$



2. Mr. Foster buys 7 boxes of cornflakes. Each box weighs $13\frac{1}{2}$ ounces.
Find the total weight of the cornflakes.

Name: _____

Date: _____

Solve. Show your work.

- 3.** A rectangular envelope is 8 inches wide and $4\frac{1}{3}$ inches long.
Find the area of the envelope.

Area of a rectangle
= length \times width



- 4.** A carpenter bought 4 boxes of nails. Each box weighed $3\frac{2}{5}$ pounds.
The price of the nails was \$8 per pound. How much did the carpenter pay for the nails?

Worksheet 6 Dividing Fractions and Whole Numbers

Each whole is divided into parts. Each part is subdivided into smaller parts. Complete each model. Then complete the division sentence.

Example

1 whole

$\frac{1}{3}$

$\frac{1}{6}$

$\frac{1}{3} \div 2 = \frac{1}{6}$

$\frac{1}{3}$ is divided into 2 parts.

Each whole is divided into equal parts. Write a fraction to represent the shaded part.


1.

2.


Name: _____

Date: _____

Answer each question.


3. 

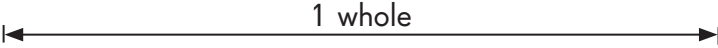
Divide the bar into 5 equal parts. Shade one of them.

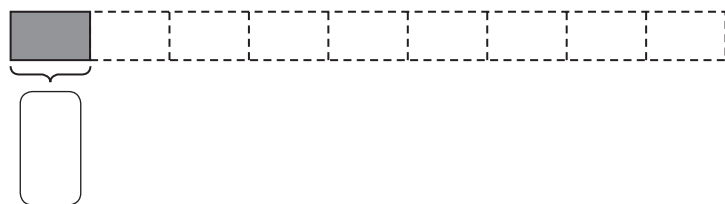
The shaded part equals .

4. 

Divide the bar into 8 equal parts. Shade one of them.

The shaded part equals .

5. 



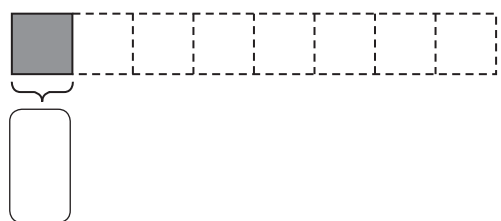
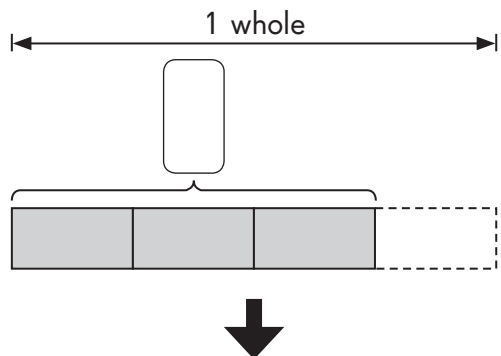
$$\boxed{} \div \boxed{} = \boxed{}$$

Name: _____

Date: _____

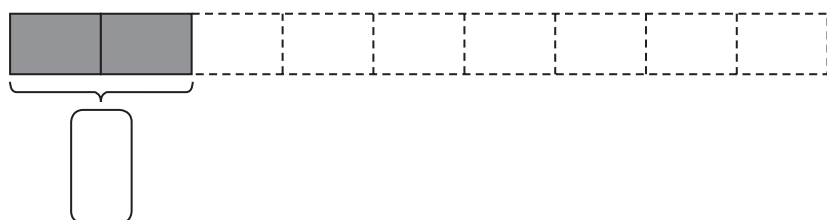
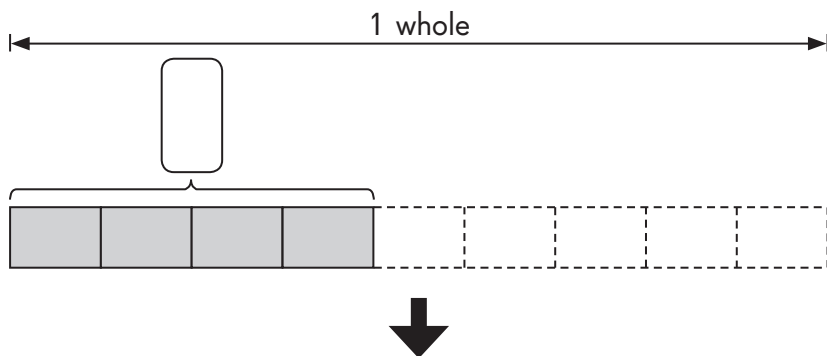
Each whole is divided into parts. Each part is subdivided into smaller parts. Complete each model. Then complete the division sentence.

6.



$$\boxed{} \div \boxed{} = \boxed{}$$

7.



$$\boxed{} \div \boxed{} = \boxed{}$$

Name: _____

Date: _____

Complete.

8. There are _____ $\frac{1}{2}$ s in 1 whole.

9. There are _____ $\frac{1}{2}$ s in 2 wholes.

10. Draw 2 wholes made from $\frac{1}{2}$ circles.

Complete.

11. There are _____ $\frac{1}{5}$ s in 1 whole.

12. There are _____ $\frac{1}{5}$ s in 3 wholes.

13. Draw 3 wholes made from $\frac{1}{5}$ circles.

Complete.

Example

$$\frac{1}{4} \div 3 = \boxed{\frac{1}{3}} \text{ of } \frac{1}{4}$$

$$= \boxed{\frac{1}{3}} \times \frac{1}{4} = \boxed{\frac{1}{12}}$$

$$\frac{1}{3} \times \frac{1}{4} = \frac{1 \times 1}{3 \times 4}$$

$$= \frac{1}{12}$$



14. $\frac{7}{8} \div 5 = \boxed{\phantom{\frac{1}{3}}} \text{ of } \frac{7}{8}$

$$= \boxed{\phantom{\frac{1}{3}}} \times \frac{7}{8}$$

$$= \boxed{\phantom{\frac{1}{12}}}$$

15. $\frac{8}{9} \div 4 = \boxed{\phantom{\frac{1}{3}}} \text{ of } \boxed{\phantom{\frac{1}{4}}}$

$$= \boxed{\phantom{\frac{1}{3}}} \times \boxed{\phantom{\frac{1}{4}}}$$

$$= \boxed{\phantom{\frac{1}{12}}}$$

16. $\frac{5}{12} \div 8 = \boxed{\phantom{\frac{1}{3}}} \text{ of } \boxed{\phantom{\frac{1}{4}}}$

$$= \boxed{\phantom{\frac{1}{3}}} \times \boxed{\phantom{\frac{1}{4}}}$$

$$= \boxed{\phantom{\frac{1}{12}}}$$

Name: _____

Date: _____

Divide. Express each quotient in simplest form.

Example

$$\begin{aligned}\frac{2}{5} \div 3 &= \frac{2}{5} \times \frac{1}{3} \\ &= \frac{2 \times 1}{5 \times 3} \\ &= \frac{2}{15}\end{aligned}$$

Dividing by 3 is the same as multiplying by $\frac{1}{3}$.



17. $\frac{2}{3} \div 6$

18. $\frac{7}{8} \div 9$

19. $\frac{4}{9} \div 8$

20. $\frac{9}{11} \div 3$

Name: _____

Date: _____

Complete the table.**21.**

Number	Reciprocal
7	$\frac{1}{7}$
9	
13	
18	

22.

Reciprocal	Number
$\frac{1}{2}$	2
$\frac{1}{12}$	
$\frac{1}{15}$	
$\frac{1}{20}$	

Complete.

23. $3 \div \frac{1}{4} = 3 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

24. $7 \div \frac{1}{8} = \underline{\hspace{2cm}} \times 8 = \underline{\hspace{2cm}}$

25. $9 \div \frac{1}{5} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

26. $11 \div \frac{1}{4} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

27. $14 \div \frac{1}{11} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$\div \frac{1}{3}$ is the same as $\times 3$.



Name: _____

Date: _____

Complete each statement.

- 28.** If each child receives $\frac{1}{4}$ of an apple,
- a.** one apple can be shared among _____ children.
 - b.** two apples can be shared among _____ children.
- 29.** If each child drinks $\frac{1}{8}$ liter of milk,
- a.** one liter of milk can be shared among _____ children.
 - b.** three liters of milk can be shared among _____ children.
- 30.** If each gift can be wrapped using $\frac{1}{3}$ of a piece of wrapping paper,
- a.** each piece of paper can be used to wrap _____ gifts.
 - b.** two pieces of paper can be used to wrap _____ gifts.
 - c.** five pieces of paper can be used to wrap _____ gifts.

Name: _____

Date: _____

Worksheet 7 Real-World Problems: Multiplying and Dividing with Fractions

Solve. Use models to help you.

- 1.** There are 144 pieces of fruit in a box. Of the fruit in the box, $\frac{1}{8}$ are red apples and $\frac{1}{4}$ are green apples. The rest are oranges.

a. How many oranges are there altogether?

b. What fraction of the fruit are oranges?

- 2.** A bakery had 54 rolls. Of the rolls that the bakery had, $\frac{1}{6}$ were sold in the morning and $\frac{1}{2}$ were sold in the evening.

a. How many rolls were sold altogether?

b. How many rolls were not sold?

Name: _____

Date: _____

Solve. Use models to help you.

- 3.** Mr. Woods had \$840. He spent $\frac{3}{7}$ of the money on a lawn mower. He spent $\frac{1}{8}$ of the remaining money on a gift for his wife. How much money did Mr. Woods have left?

- 4.** Rebecca had a piece of ribbon. She used $\frac{3}{8}$ of it to tie a package. She used $\frac{1}{5}$ of the remainder for a bookmark. Rebecca had 24 centimeters of ribbon left. What was the length of ribbon Rebecca had at first?

Name: _____

Date: _____

Complete each model to show the statements.

5. A liter of milk is divided among 2 adults and 4 children. Each adult drinks $\frac{1}{4}$ liter and each child drinks $\frac{1}{8}$ liter.

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6. A pizza is divided and given to 3 boys and 2 girls. Each boy gets $\frac{1}{6}$ of a pizza and each girl gets $\frac{1}{4}$ of a pizza.

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Name: _____

Date: _____

Solve. Show your work.

7. James has 5 melons. Two of them are shared among 10 students.

What fraction of a melon will each student get?

The remaining melons are then divided into $\frac{1}{3}$ each. These pieces are shared equally among the students. How many students do not get a piece of these melons?

How much of a melon will each student get in total?