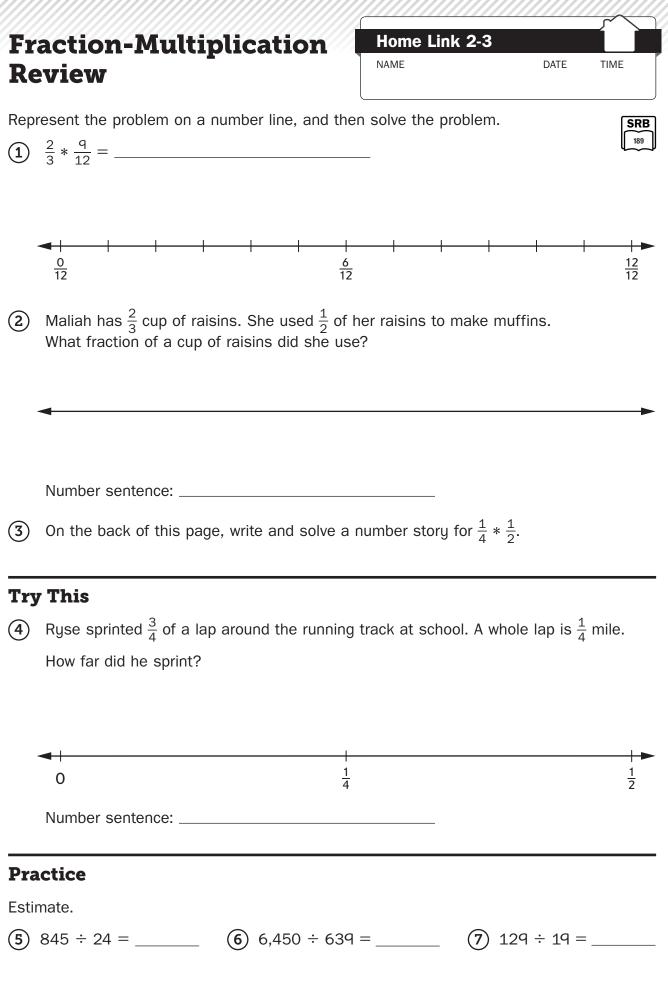
	nding the Greatest ommon Factor		Home Link 2 NAME	- <b>1</b> Date	TIME		
1	Use any method to find the greatest common factor for the number pairs.						
	<b>a.</b> GCF (42, 56) =	b.	GCF (32, 80) =	=			
	<b>c.</b> GCF (72, 16) =	d.	GCF (10, 40, 2	25) =			
2	Explain how you found GCF (42, 56) in F	Proble	m 1a.				
3	Use the GCF to find an equivalent fraction	on for	$\frac{48}{64}$ . Show your	work.			
4	Jenny will use 28 blue beads and 21 red beads to make identical bracelets. <b>a.</b> What is the greatest number of bracelets she can make?						
	<b>b.</b> How many blue beads and how man	ny rec	l beads will be o	on each bracele	t?		
5	Explain how a set of numbers can have	a GC	F greater than 1				
	Thio						
6	<b>GCF</b> (12, 24, 30, 42) =						
Pra	ictice						
Inse	rt the missing digits to make each numbe	er ser	ntence true.				
$\overline{\mathcal{T}}$	63 - 39  9 = 2.83	(8)	71 4	-4.8 $6=6$	6 .270		

$\sim$					<u> </u>				
(1)		I the least common m	•						
		LCM (10, 15) =				LCM (12,			
	C.	LCM (6, 10) =		_	d.	LCM (7, 5	) =		
2		I the greatest commo umbers.	n fao	ctor and least o	comm	ion multiple	for each	n pair	
	a.	GCF (75, 100) =			b.	GCF (36,	48) =		
		LCM (75, 100) =				LCM (36,	48) = _		
Use	the l	CM to find equivalent	t fra	ctions with the	least	common c	enomina	tor.	
(3)	<u>3</u> ar	rd $\frac{5}{6}$	(4)	$\frac{1}{6}$ and $\frac{3}{8}$		(5)	$\frac{4}{25}$ and	4	
0	LCN	0		LCM (6, 8) =			20		
	Frac	tions:		Fractions:		_	Fraction	IS:	
6	a.	On a website, there every 10 minutes, a If they all appeared the next time they w	nd a toge	n ad for scarve ether at 9:00 p.	es eve м., wl	ery 45 min		or sneak	ers
	b.	Explain how you use	d G	CF or LCM to se	olve t	he problem			
7	Exp	ain why the LCM is a	t lea	ist as large as	the G	GCF.			
	ctic	:e							
	ctic	.e							



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### **Companion Gardening**

Home Link 2-4

DATE

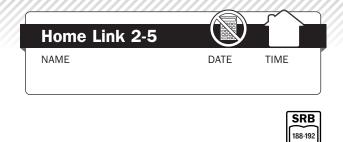
TIME

		<b>SRB</b> 188-192
1	In companion planting, marigold flowers are used to repel insects that harm melon plants. Community gardeners plant $\frac{2}{3}$ of a rectangular garden bed with melon plants. They plant $\frac{3}{4}$ of the melon area with marigolds.	
	What fraction of the garden bed will have both plants growing together?	
	Number sentence:	
2	Two plants that grow well together are tomatoes and basil. This year, $\frac{1}{5}$ of a garden bed was planted with tomatoes and basil. Next year, the area will be 3 times as large.	
	What will the area be next year?	
	Number sentence:	
First	estimate, then use a partial-products diagram to solve Problem 3.	
3	Last year a community garden produced $5\frac{1}{3}$ pounds of carrots. This year, better weather resulted in a harvest $2\frac{2}{3}$ times as large. How many pounds of carrots were harvested this year?	
	Estimate:	
	Number sentence:	

Number	sentence:	

**Practice** Find equivalent fractions.

### **Fraction Multiplication**



What is the area of the room?

(7) 453 \* 24 =

Number sentence:

\_\_\_\_\_ = 176 \* 48

Mara's strategy: 
$$\frac{6}{8} * \frac{2}{3} = \left(6 * \frac{1}{8}\right) * \left(2 * \frac{1}{3}\right)$$
  
=  $(6 * 2) * \left(\frac{1}{8} * \frac{1}{3}\right)$   
=  $12 * \frac{1}{24}$   
=  $\frac{12}{24}$ 

How many pages did she finish?

(6)

Number sentence:

Use Mara's strategy to rename the fractions as whole numbers and unit fractions. (1)Then group your factors to make the problem easier. Show the steps you use.

**Practice** 

**(5)** 389 \* 17 = \_\_\_\_\_

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2

3

# Division Using Common Denominators

Home Link 2-6		
NAME	DATE	TIME

1	Draw a picture or diagram and solve	e the problem.	SRB
	Rudi has 4 cups of almonds. His trail mix recipe calls for $\frac{2}{3}$ cup o How many batches of trail mix can		
2	Use common denominators to solve	e the problems.	
	Write a number sentence to show h denominators.	ow you rewrote the problem with common	
	Check your answers.		
	<b>a.</b> $\frac{3}{4} \div \frac{3}{8} = $	Number sentence:	
	<b>b.</b> $3\frac{1}{3} \div \frac{5}{6} = $	Number sentence:	
	<b>c.</b> $\frac{36}{8} \div \frac{1}{2} = $	Number sentence:	
3	Michelle is cutting string to make no She has 15 feet of string. She need How many necklaces can she make	ds $1\frac{1}{2}$ feet of string for each necklace.	
	Number model:	Solution:	
4	A rectangular window has an area o What is its length?	of $4\frac{1}{2}$ square meters. Its width is $\frac{3}{4}$ meter.	
	Number model:	Solution:	
Pra	ctice		
Solv	e.		
5	GCF (20, 30) = 6 GCF	F (6, 16) = ⑦ GCF (36, 54) =	

### More Exploring Fraction Division

Home Link 2-7

SRB

193-196

For problems 1–3, circle the best estimate and the correct number model. Then solve the problem.

1	Stan is in woodworking clas They have to split a board t How long will each person's	hat is $4\frac{2}{3}$ feet long equally a	mong the seven of them.
	Estimate:	More than $4\frac{2}{3}$ feet	Less than $4\frac{2}{3}$ feet
	Number model:	$7 \div 4\frac{2}{3}$	$4\frac{2}{3} \div 7$
	Answer:		
2	The area of a rectangle is 1 How wide is the rectangle?	$0\frac{1}{2}$ square feet. The length is	s 5 $\frac{1}{4}$ feet.
	Estimate:	More than $5\frac{1}{4}$ feet	Less than $5\frac{1}{4}$ feet
	Number model:	$10\frac{1}{2} \div 5\frac{1}{4}$	$5\frac{1}{4} \div 10\frac{1}{2}$
	Answer:		
3	Sounya walks dogs on Satu She has $5\frac{1}{4}$ hours. How ma	Irdays. It takes $\frac{3}{4}$ of an hour to ny dogs can she walk?	to walk each dog.
	Estimate:	More than 5 dogs	Fewer than 5 dogs
	Number model:	$\frac{3}{4} \div 5\frac{1}{4}$	$5\frac{1}{4} \div \frac{3}{4}$
	Answer:		
Pra	ictice		
Find	the LCM.		
4	LCM (3, 7) = (5	) LCM (8, 4) = (	6 LCM (10, 4) =

Fra	action Division	Home Link 2-8	DATE	TIME
	rite and solve the division problems using the <b>mple:</b> $\frac{3}{8} \div \frac{2}{5} = \frac{3}{8} * \frac{5}{2} = \frac{15}{16}$	e Division of Fractions Pro	perty.	SRB 196
1	$3 \div \frac{2}{3} = $ (2)	$\frac{1}{5} \div \frac{8}{9} = \_$		
3	$4 \div \frac{5}{7} = $ (4)	$1\frac{2}{3} \div \frac{3}{5} =$		
5	$\frac{2}{5} \div \frac{3}{4} = $ (6)	$\frac{3}{5} \div 4 =$		
7	How many $\frac{1}{4}$ -cup servings of cottage chees Division number model: Mu Solution:			
8	Philip went on a $3\frac{1}{2}$ -mile hike. He hiked for About how far did he go in 1 hour?	2 hours.		
	Division number model: Mu Solution:	Itiplication number model:		
9	Adam is using ribbon to decorate name tage. He has $8\frac{2}{3}$ feet of blue ribbon. He needs $\frac{1}{3}$ How many name tags can he decorate?	•	me tag.	
	Division number model: Mu	Itiplication number model:	:	
	Solution:			
Pra	ctice			
Add	or subtract.			
10	\$4.50 + \$3 =	<b>(1)</b> \$5.00 - \$3.20 =		
12	= \$6.30 + \$0.45 + \$1.35			

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				$\sim$
	sing Ratios to	Home Link 2-9	DATE	TIME
Re	present Situations		BAL	
1	Lenore's dog gave birth to a litter of 9 puppi Two of the puppies are male. Write ratios for Number of female puppies to the total numb	r the following:		<b>SRB</b> 45-48
	Number of male puppies to female puppies			
For	Problems 2–4, draw a picture to help you solv	ve the problem. Record	a ratio.	
2	There are 15 tiles. 2 out of 5 tiles are white. How many tiles are white? Write the ratio of white tiles to total tiles.			
3	There are 24 tiles. 3 out of 4 tiles are white. How many tiles are white? Write the ratio of white tiles to shaded tiles.			
4	There are 3 times as many white tiles as there are shaded tiles. Write this ratio.			
	How many tiles are white if there are 12 tile	s in total?		
5	The Mighty Marble Company fills bags of ma with a ratio of 3 Special Swirls out of every How many Special Swirls are in a bag that h	9 marbles.		
Try	7 This			
6	One class of 28 students has a ratio of 3 gi number of boys to total number of students	Ũ	the ratio f	or the
	There are 60 girls in the whole sixth grade a	and the ratio is the sam	ne. How m	iany
	students are there in sixth grade?			

 $(7) \quad \frac{5}{6} * \frac{3}{4} = \underline{\qquad} \qquad (8) \quad \frac{2}{3} * 1\frac{1}{2} = \underline{\qquad} \qquad (9) \quad \frac{8}{9} * \frac{2}{7} = \underline{\qquad}$ 

### Practice Solve.

# More with Tape Diagrams

Home Link 2-10

Draw tape diagrams to solve the problems. Label your diagrams and your answers.

 Frances is helping her father tile their bathroom floor. They have tiles in two colors: green and white. They want a ratio of 2 green tiles to 5 white tiles.

- a. They use 30 white tiles.How many green tiles do they use?
- **b.** How many white tiles would they need if they use 16 green tiles?

DATE

TIME

**SRB** 45-48

**c.** They use 35 tiles in all. How many are green? **d.** They use 49 tiles. How many of each color did they use?

e. Explain how you used the tape diagram to solve Part d.

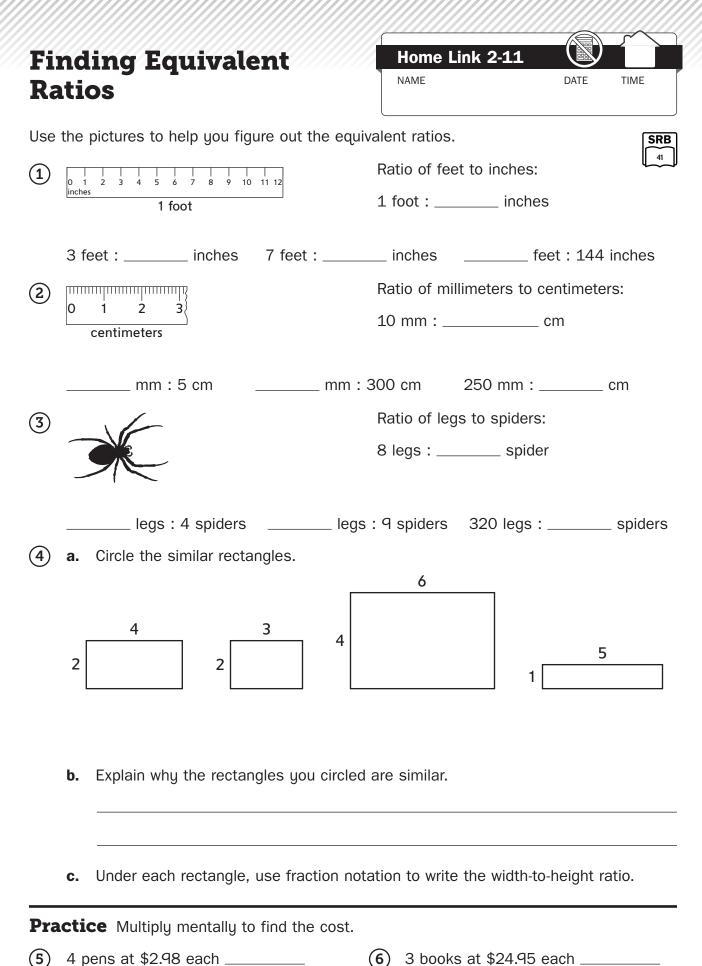
#### **Try This**

(2) Frances and her father decide to also tile their kitchen floor. For every 3 white tiles they plan to use 7 green tiles. The kitchen floor has room for 63 tiles total. Explain why they cannot cover the kitchen floor using the ratio 3 : 7.

#### Practice Divide.

**(3)** 
$$\frac{4}{5} \div \frac{1}{5} =$$
 **(4)**  $\frac{1}{5} \div \frac{4}{5} =$  **(5)**  $7 \div \frac{1}{2} =$ 

83



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### Using Ratios to Make Fruit Cups



Oliver has two fruit-cup recipes that have different ratios of raspberries and watermelon.

Recipe A	Recipe B
2 cups raspberries	5 cups raspberries
3 cups watermelon	11 cups total

- a. Which fruit-cup recipe would have a stronger raspberry taste? \_
  - **b.** Draw a picture or diagram to support your answer.

**c.** Explain how your picture or diagram supports your answer.

4	If you only want 1 cup of fruit salad made from Recipe A, what measurements of watermelon and raspberries do you need?
Гry	y This
	List your ingredients:
3	Create a fruit-cup recipe that would make a fruit cup with a weaker raspberry taste than Recipes A and B.
	List your ingredients:
2	Create a fruit-cup recipe that would taste the same as Recipe B, but uses more than 11 cups of fruit.

(6) 842 ÷ 2 = \_\_\_\_\_

(7)

930 ÷ 3 = \_

Practice Divide.

**(5)** 560 ÷ 7 = \_\_\_\_\_

-8 \_\_\_\_\_ -9

### **Ratio/Rate Tables** and Unit Rates

Home Link 2-13 NAME

List three examples of a rate: (1)

Draw a ratio/rate table to solve each problem. The first table has been drawn for you, but it is not complete.

One 12-ounce can of frozen juice is mixed with (2) three 12-ounce cans of water. How many cans of water do you need for 4 cans of juice?

Cans of Water	3	
Cans of Juice	1	4

(3) A hiker's map has a scale of 3 inches to 10 miles. The trail is 4 inches long on the map. How long is the actual hike?

Amy types 125 words in 2 minutes. (4) About how long will it take her to type a 1,500-word report?

### **Try This**

(6)

A recipe for lime salad dressing calls for  $\frac{1}{4}$  cup lime juice and  $\frac{3}{4}$  cup olive oil. (5) How much lime juice would you use with 1 cup olive oil?

**Practice** Record >, <, or =.

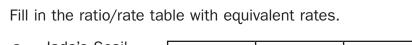
(7) 6 \_\_\_\_\_ -7 -3 \_\_\_\_\_ -5 (8)



### **Graphing Rates**

(1)

Snails move slowly. Jada, Reality, and Barb had a snail race. Then they compared the rates at which the snails crawled.



а.	Jada's Snail	Minutes	10			
		Inches	4	8	2	6
b.	Reality's Snail	Minutes	12			
		Inches	3	1	4	6
<b>c.</b> E	Barb's Snail Minute	Minutes	15			
		Inches	5	1	3	7
_						

Home Link 2-14

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SRB

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NAME

(2) Treat each rate as an ordered pair. Graph each snail's rate using a different color.

