### Add Dollars and Cents

Use place value.

Essential Question How can you find sums of decimal amounts in dollars and cents?

# Tunlock the Problem

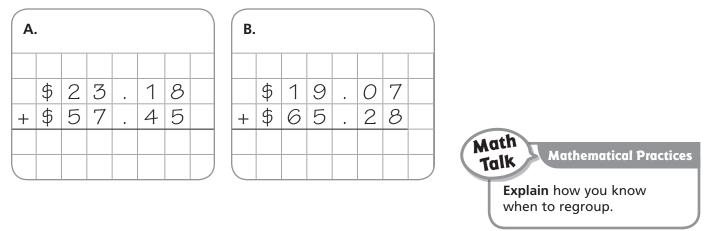
Carlos bought a new skateboard for \$99.46 and a helmet and pads for \$73.49. How much did Carlos spend in all?

What operation can you use to find the amount Carlos spent?

You add money amounts in the same way as you add whole numbers. Use the decimal point to line up the digits.

Add. \$99.46 + \$73.49 <b>STEP</b> 1	STEP 2	STEPS 3 and 4	STEP 5
Add the pennies. Regroup 15 pennies.	Add the dimes.	Add the ones. Add the tens.	Insert the decimal point and dollar sign.
1     \$ 99.46     + \$ 73.49     5     5	$ \begin{array}{r} 1 \\ \$ 99.46 \\ \underline{+\$ 73.49} \\ 95 \end{array} $	$ \begin{array}{r} 1 & 1 \\ \$ & 99.46 \\ \underline{+\$ & 73.49} \\ 172 & 95 \end{array} $	$ \begin{array}{r} 1 & 1 \\ \$ & 99.46 \\ \underline{+ \$ & 73.49} \\ \$172 & 95 \end{array} $
So, Carlos spent \$172.95	5.		

#### Try This! Find the sum.





<b>1.</b> Explain what is hap	pening in Step 2.	STEPS 1 and 2	STEPS 3 AND	4 STEP 5
		$ \begin{array}{r} 1 \\ \$84.60 \\ + \$35.70 \\ 30 \end{array} $	$11 \\ \$84.60 \\ + \$35.70 \\ 12030$	$     11 \\     \$84.60 \\     + $35.70 \\     \$ 120 30   $
Find the sum.		-		
<sup>2.</sup> \$ 3.09 +\$ 8.92	<sup>3.</sup> \$ 26.08 +\$ 41.39	<sup>4.</sup> \$ 7. +\$26.	27 <sup>5.</sup> 43	\$ 30.47 + \$ 28.56
On Your Own		I	I	
Find the sum.				
<sup>6.</sup> \$ 9.57 <u>+\$ 4.09</u>	<sup>7.</sup> \$ 89.36 +\$ 3.85	<sup>8.</sup> \$ 23. <u>+ \$ 10</u> .		\$ 8.52 +\$36.07
<sup>10.</sup> \$ 48.92	<sup>11.</sup> \$ 60.45	<sup>12.</sup> \$ 58.	02   13.	\$ 61.74
+\$ 7.08	+ \$ 17.42	+ \$ 73.		+ \$ 60.57
Problem Sol	ving Real World			

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### **Subtract Dollars and Cents**

**Essential Question** How can you find differences between decimal amounts in dollars and cents?

## PUnlock the Problem (Real World

Sandi wanted to buy a new coat online. She figured out that the cost of the coat, with shipping, would be \$84.24. The next week, Sandi bought the same coat in a local store on sale for a total of \$52.47. How much did Sandi save by buying the coat on sale?

You subtract money amounts in the same way as you subtract whole numbers.

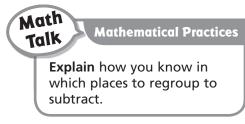
- Underline the information you need to solve the problem.
- What operation can you use to find the difference between the two prices?

Use place value.

Subtract. \$84.24 - \$52.47

Use the decimal point to line up the digits. Work from right to left. Check each place to see if you need to regroup to subtract.

STEP 1	STEP 2	STEPS 3 and 4	STEP 5
Regroup 2 dimes and 4 pennies as 1 dime and 14 pennies. Subtract the pennies.	Regroup 4 dollars and 1 dime as 3 dollars and 11 dimes. Subtract the dimes.	Subtract the ones. Subtract the tens.	Insert the decimal point and dollar sign.
114     \$84.24 $ $	$     \begin{array}{r}             11 \\             3   14 \\             \$8\cancel{,}          $	$ \begin{array}{r}  & 11 \\  & 3 \cancel{14} \\  & \$8\cancel{\cancel{24}} \\  & - \$52.47 \\  & 3177 \end{array} $	11 3 x 14 \$84.24 <u>- \$52.47</u> \$31 77
So, Sandi saved \$31.77.			





**1.** Find the difference. Regroup as needed.

Find the difference.

<sup>2.</sup> \$5.89	<sup>3.</sup> \$30.07	<sup>4.</sup> \$60.00	<sup>5.</sup> \$99.08
<u>-\$3.16</u>	<u>-\$11.32</u>	<u>-\$42.75</u>	<u>-\$91.36</u>
On Your Own			

Find the difference.

<sup>6.</sup>	<sup>7.</sup>	<sup>8.</sup>	<sup>9.</sup>
\$9.08	\$73.45	\$90.00	\$80.03
<u>-</u> \$7.26	<u>-\$12.13</u>	<u>-</u> \$42.17	<u>-</u> \$49.53
<sup>10.</sup> \$15.36 <u>-\$2.73</u>	<sup>11.</sup> \$84.00 <u>-\$27.85</u>	<sup>12.</sup> \$74.19 <u>-\$8.46</u>	<sup>13.</sup> \$79.62 <u>-\$23.58</u>



14. Bert earned \$78.70 last week. This week he earned \$93.00.How much more did he earn this week than last week?

#### Name \_

### **Order of Operations**

**Essential Question** How can you use the order of operations to find the value of expressions?



At a visit to the Book Fair, Jana buys 7 hardcover books and 5 paperback books. She is going to give an equal number of books to each of her three cousins. How many books will each of Jana's cousins get?

To find the value of an expression involving parentheses, you can use the order of operations. Remember, the order of operations is a special set of rules that give you the order in which calculations are done in an expression.

First, perform operations inside the parentheses.

Then, multiply and divide from left to right.

Finally, add and subtract from left to right.

Use the order of operations to find the value of  $(7 + 5) \div 3$ .

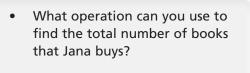
#### **STEP 1**

Perform operations in parentheses.  $(7 + 5) \div 3$ 

÷ 3

So, each of Jana's cousins will get 4 books.

• What if Jana decides to keep 3 books for herself? How will this change the expression? How many books will each of Jana's cousins get?



What operation can you use to find how many books each of Jana's cousins gets?

#### **STEP 2**

Use the order of operations. In this case, divide.

 $12 \div 3$ 

Math **Mathematical Practices** Talk What operation should

you do first to find the values of (6 + 2)  $\times$  3 and 6 + (2 imes 3)? What is the value of each expression?





#### Write *correct* if the operations are listed in the correct order. If not correct, write the correct order of operations.

<b>1.</b> $(4+5) \times 2$	multiply, add	<b>2.</b> $8 \div (4 \times 2)$ multiply, divide
<b>3.</b> $12 + (16 \div 4)$	add divida	$1  0 + 2 \times (2 - 1)$ add multiply subtract
<b>5.</b> $12 + (10 \div 4)$	add, divide	<b>4.</b> $9 + 2 \times (3 - 1)$ add, multiply, subtract

## Follow the order of operations to find the value of the expression. Show each step.

<b>5.</b> $6 + (2 \times 5)$	<b>6.</b> 18 - (12 ÷ 4)	<b>7.</b> 8 × (9 − 3)	<b>8.</b> $(12+8) \div 2 \times 3$

### On Your Own

#### Follow the order of operations to find the value of the expression. Show each step.

<b>9.</b> $6 + (9 \div 3)$	<b>10.</b> $(3 \times 6) \div 2$	<b>11.</b> (49 ÷ 7) + 5	<b>12.</b> $9 \times (8 - 2)$
<b>13.</b> 45 ÷ (17 − 2)	<b>14.</b> (32 + 4) ÷ 9 − 2	<b>15.</b> $8 \times 9 - (12 - 8)$	<b>16.</b> (36 - 4) + 8 ÷ 4

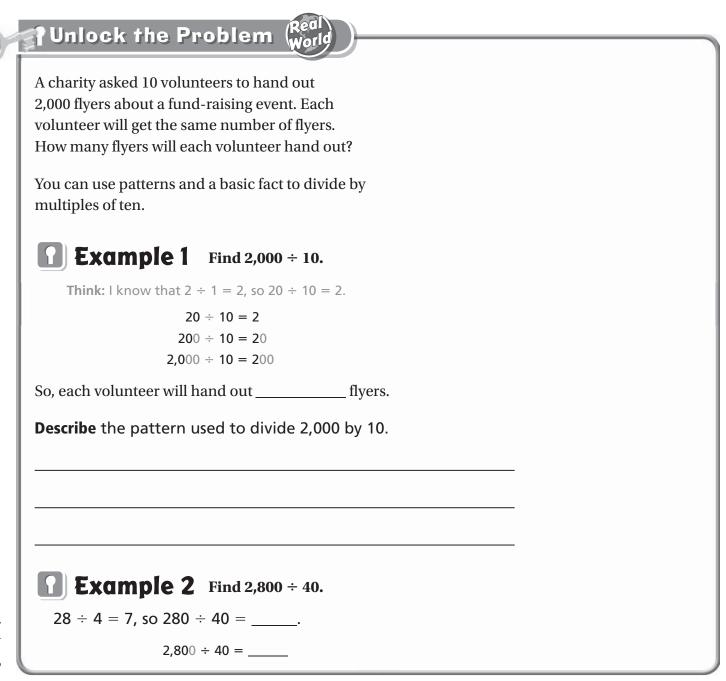


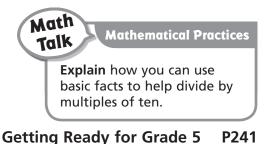
**17.** Mr. Randall bought 4 shirts, which were on sale. The shirts were originally priced \$20. The sales price of the shirts was \$5 less than the original price. Write and find the value of an expression for the total amount that Mr. Randall paid for the shirts.

Name \_

### **Divide by Multiples of Ten**

Essential Question How can you use patterns to divide by multiples of ten?





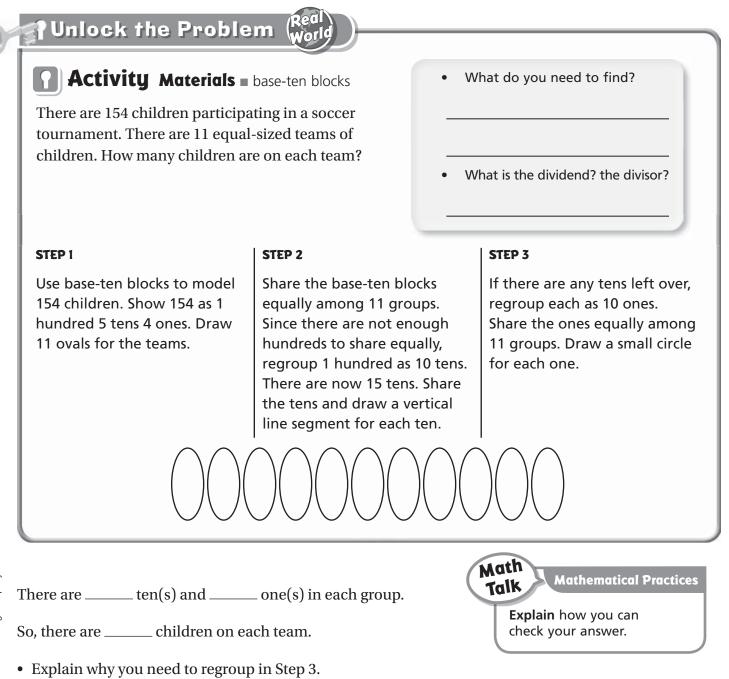
Share and Show	
<b>1.</b> Find 6,000 ÷ 20.	$6 \div 2 = $ , so $60 \div 20 = $
Think: I can use patterns to divide,	$600 \div 20 =$
starting with 60 ÷ 20.	6,000 ÷ 20 =
	,
Divide. Use a pattern to help.	
<b>2.</b> $8,000 \div 20 = $ <b>3.</b> $4,000 \div 40 = $	<b>4.</b> $1,200 \div 60 =$
On Your Own	
Divide. Use a pattern to help.	
<b>5.</b> $9,000 \div 30 =$ <b>6.</b> $5,000 \div 50 =$	<b>7.</b> 1,800 ÷ 60 =
<b>8.</b> 7,000 $\div$ 10 = <b>9.</b> 3,200 $\div$ 80 =	<b>10.</b> 6,300 ÷ 90 =
Problem Solving (Real World	
<b>11.</b> A group of musicians wants to sell a total of 1,000 ticl	kets
for 20 concerts. Suppose they sell the same number of	
for each concert. How many tickets will they sell for e	each

concert? Explain how you solved the problem.

### **Model Division with 2-Digit Divisors**

Essential Question How can you use models to divide?

CONNECT You have used base-ten blocks to divide whole numbers by 1-digit divisors. You can follow the same steps to divide whole numbers by 2-digit divisors.





**1.** Use base-ten blocks to find  $182 \div 14$ . Describe the steps you took to find your answer.

Use base-ten blocks to divide.

 2.  $60 \div 12 = \_$  3.  $135 \div 15 = \_$  

 On Your Own

 Use base-ten blocks to divide.

 4.  $180 \div 10 = \_$  5.  $150 \div 15 = \_$  

 6.  $88 \div 11 = \_$  

 7.  $96 \div 16 = \_$  8.  $176 \div 11 = \_$  

 9.  $156 \div 13 = \_$ 



- **10.** Nicole has \$250 in ten-dollar bills. How many ten-dollar bills does Nicole have?
- **11.** At Dante's party, 16 children share 192 crayons. At Maria's party, 13 children share 234 crayons. Each party splits the crayons up equally among the children attending. How many more crayons does each child at Maria's party get than each child at Dante's party? Explain.

Name			
	Chec	kpoint	
Concepts a	nd Skills		
Find the sum or diffe	rence.		
1. \$2.87 + \$8.09	<sup>2.</sup> \$7.65 <u>- \$5.23</u>	<sup>3.</sup> \$37.05 <u>+ \$14.95</u>	-
Use base-ten blocks	to divide.		
<b>5.</b> 143 ÷ 11	<b>6.</b> 224 ÷ 16	<b>7.</b> 1	$08 \div 18$
Follow the order of o expression. Show eac	perations to find the value	of the	
<b>8.</b> $(8 \times 2) + 4$	<b>9.</b> $16 - (3 \times 5)$	<b>10.</b> 24 ÷ (15 − 7)	<b>11.</b> $15 \div (9-4) \times 4$
Divide. Use a pattern	to help.		
<b>12.</b> 6,000 ÷ 30	<b>13.</b> 2,000 ÷ 20	<b>14.</b> 3,200 ÷ 40	<b>15.</b> 8,100 ÷ 90
		_	

(Real World

Problem Solving

#### Fill in the bubble completely to show your answer.

- **17.** Taby buys a dog leash for \$18.50 and a dog collar for \$12.75. What is the total cost of the leash and the collar?
  - **A** \$5.75
  - **B** \$6.25
  - **C** \$30.25
  - **D** \$31.25
- **18.** Mr. Martin pays \$35.93 for shoes for himself and \$18.67 for shoes for his son. How much more do Mr. Martin's shoes cost than his son's?
  - **A** \$17.26
  - **B** \$17.36
  - **(C)** \$23.24
  - **D** \$54.60
- 19. Chris and Susan each collect baseball cards. Chris has 75 cards and Susan has 93 cards. They want to combine their collections and divide the cards evenly between them. Which expression can they use to find the number of cards each of them should have?
  - (A)  $75 + 93 \div 2$
  - **B**  $75 + (93 \div 2)$
  - $\bigcirc$  (75 + 93) × 2
  - **(D**  $(75+93) \div 2$
- 20. A store expects 4,000 customers during its 20-hour sale. Suppose the same number of customers arrives each hour. How many customers come each hour?
  - **(A)** 20
  - **B** 200
  - C 2,000
  - **D** 8,000

### **Place Value Through Millions**

**Essential Question** How can you read, write, and represent whole numbers through millions?

## PUnlock the Problem (Real World

The population of Idaho is about 1,550,000. Write 1,550,000 in standard form, word form, and expanded form.

You know how to read and write numbers through hundred thousands. The place-value chart can be expanded to help you read and write greater numbers, like 1,550,000.

One million is 1,000 thousands and is written as 1,000,000. The millions period is to the left of the thousands period on a place-value chart.

• What is the value of the ten thousands place?

	PERIODS							
↓		↓		•				
MILLIONS		TH	IOUSANDS		ONES			
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
		1,	5	5	0,	0	0	0
		1 × 1,000,000	5 imes100,000	5 imes 10,000	0 × 1,000	0  imes 100	0 imes 10	$0 \times 1$
		1,000,000	500,000	50,000	0	0	0	0

The place value of the 1 in 1,550,000 is millions.

**Standard form:** 1,550,000

Word Form: One million, five hundred fifty thousand

**Expanded Form:** 1,000,000 + 500,000 + 50,000

#### Try This! Use place value to read and write the number.

Standard Form: \_\_\_\_\_

**Word Form:** Sixty-two million, eighty thousand, one hundred twenty-six

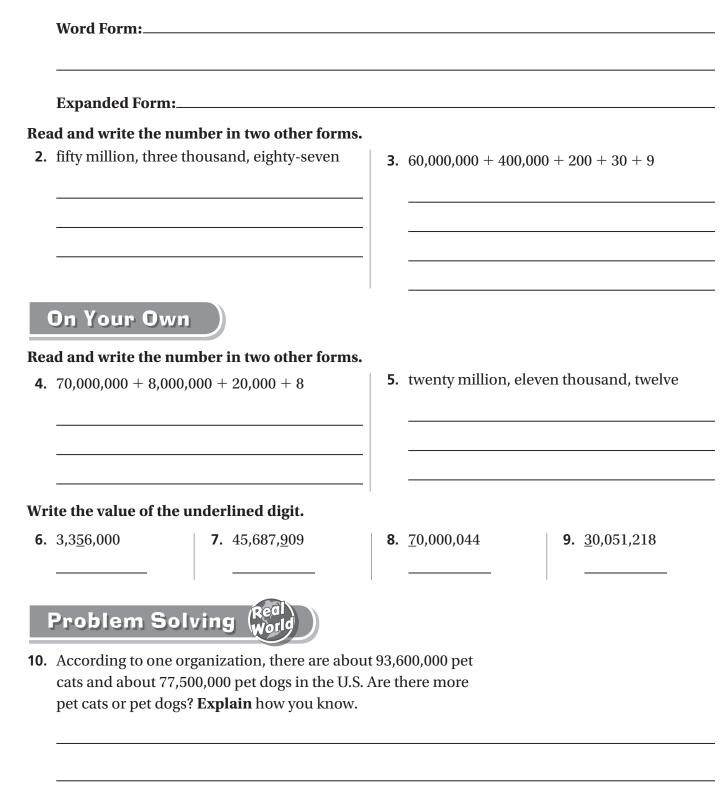
Expanded Form: 60,000,000 + \_\_\_\_\_ +

80,000 + \_\_\_\_\_ + 20 + 6

Math Talk Explain how 8,000,000 is different than 800,000.



1. Write the number 3,298,076 in word form and expanded form.



### **Decimals and Place Value**

**Essential Question** How can you use place value to read, write, and represent decimals?

**CONNECT** Decimals, like whole numbers, can be written in standard form, word form, and expanded form.

0

## Unlock the Problem (Rea

One of the world's tiniest frogs lives in Asia. Adult males range in length from about 1.06 to 1.28 centimeters, about the size of a pea.

You can use a place-value chart to help you understand decimals. Whole numbers are to the left of the decimal point in the place-value chart, and decimal amounts are to the right of the decimal point. The value of each place is one-tenth of the place to its left.

- What decimals do you see in the problem?
  - The numbers 1.06 and 1.28 are between which two whole numbers?

#### Use a place-value chart.

Write each of the decimals on a place-value chart. Be sure to line up each place and the decimal point.

Ones		Tenths	Hundredths
1	•	0	6
1	•	2	8

The place-value position of the digit 8 in 1.28 is hundredths. The value of the digit 8 in 1.28 is 8 hundredths, or  $8 \times \frac{1}{100}$  or 0.08.

You can also write 1.28 in word form and expanded form.

Word form: one and twenty-eight hundredths

**Expanded form:** 1 + 0.2 + 0.08

#### **Try This!** Use place value to read and write the decimal.

Standard Form: \_\_\_\_\_

Word Form: three and forty-six hundredths

Expanded Form: 3 + \_\_\_\_\_ + \_\_\_\_\_



Mathematical Practices

**Explain** why 1.28 is not one and twenty-eight tenths in word form.



**1.** Write the decimal 4.06 in word form and expanded form.

Word l	Form:
--------	-------

Expanded Form: \_\_\_\_\_

#### Read and write the decimal in two other forms.

**2.** five and two tenths

```
3. 6 + 0.8 + 0.09
```

On Your Own

#### Read and write the decimal in two other forms.

**4.** seven and three hundredths:

**5.** 2 + 0.3 + 0.01

Write the value of the underlined digit.

<b>6.</b> 4. <u>5</u> 6	<b>7.</b> 5.0 <u>9</u>	<b>8.</b> <u>7</u> .4	<b>9.</b> 1. <u>3</u> 2
Problem Solv	ving (Real World		

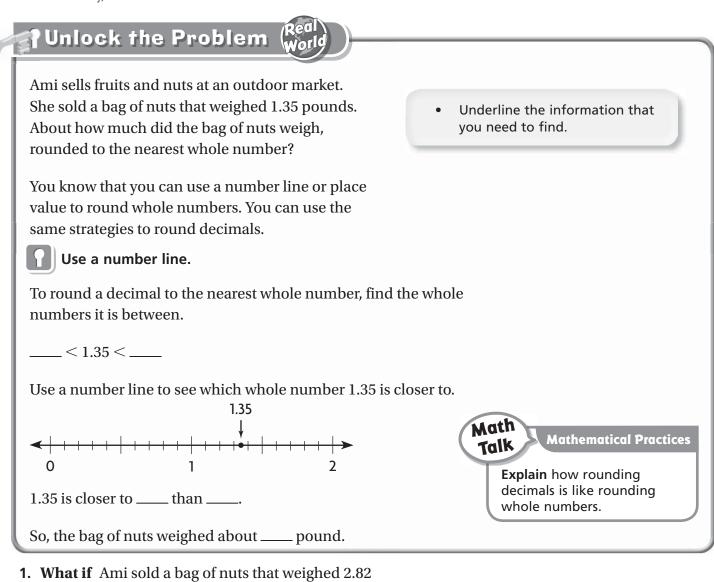
James is 1.63 meters tall. Write James's height in word form.
 Explain how you found your answer.

**11.** Ani was told to write the number four and eight hundredths. She wrote 4.8. **Explain** whether or not you think Ani is correct. If you think she is not correct, write the number correctly.

#### Name \_\_\_\_

### **Round Decimals**

**Essential Question** How can you round decimal amounts, including amounts of money, to the nearest whole number or dollar?



- What if Ami sold a bag of nuts that weighed 2.82 pounds? About how much does the bag weigh, rounded to the nearest whole number?
- **2. Describe** how you would round \$3.90 to the nearest whole dollar.



1. Round \$2.67 to the nearest dollar. Locate and mark \$2.67 on the

number line. Which whole dollar is it closest to?



#### Round to the nearest dollar or to the nearest whole number.

<b>2.</b> \$0.78	<b>3.</b> 2.1	<b>4.</b> 3.5	<b>5.</b> \$4.50

### On Your Own

#### Round to the nearest dollar or to the nearest whole number.

<b>6.</b> \$1.70	7. 2.2	<b>8.</b> \$3.99	<b>9.</b> 3.45
<b>10.</b> \$1.53	<b>11.</b> 0.9	<b>12.</b> \$0.19	<b>13.</b> 4.38

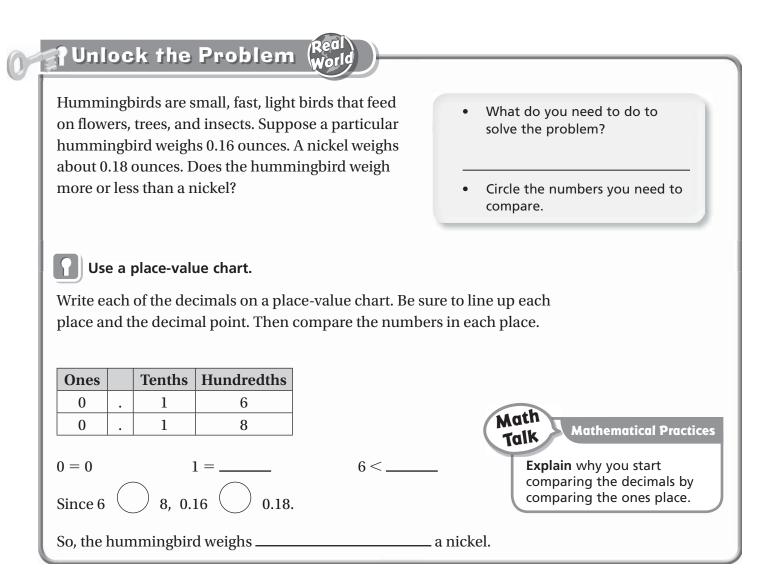


- **14.** Candice spent \$13.55 at the arts and crafts fair. How much money did Candice spend, rounded to the nearest dollar?
- **15.** Mr. Marsh bought 2.25 pounds of American cheese. About how many pounds of cheese did Mr. Marsh buy?

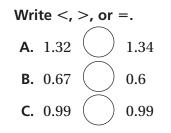
#### Name \_

### **Place Value to Compare Decimals**

Essential Question How can you use place value to compare decimals?

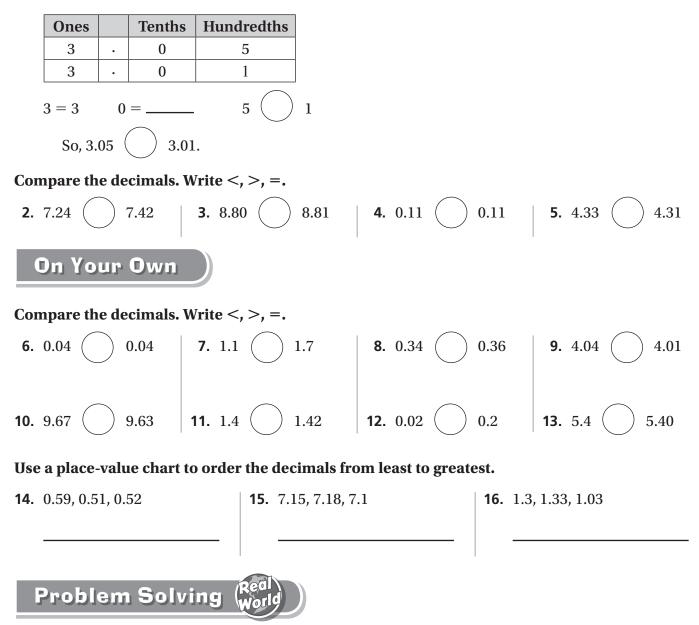


#### **Try This!** Use a place-value chart to compare the decimals.





 Use the place-value chart below to compare the decimals. Write <, >, or =.



**17.** Jill, Ally, and Maria ran the 50-yard dash. Jill ran the race in 6.87 seconds. Ally ran the race in 6.82 seconds. Maria ran the race in 6.93. Who ran the race the fastest? **Explain** how you can use a place-value chart to find the answer.

What do you need to find?

use to solve the problem.

Circle the numbers you need to

### Decompose Multiples of 10, 100, 1,000

**Essential Question** How can you find factors of multiples of 10, 100, and 1,000?



## PUnlock the Problem (Real

Architects make scale models of buildings before they build the real thing. The height of an actual building is going to be 1,200 feet. The scale model is 12 feet tall. How many times the height of the model is the height of the actual building?

You can decompose a multiple of 10, 100, or 1,000 by finding factors.



Decompose 1,200.

1,200 = \_\_\_\_\_ × 1

1,200 = \_\_\_\_\_ × 10

1,200 = \_\_\_\_\_ × 100

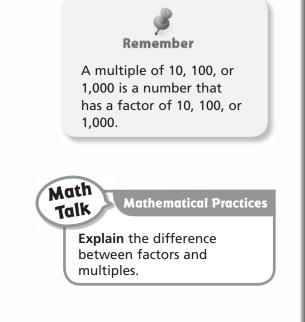
So, the building is 100 times the height of the model.

### Another Way Use place value.

#### Decompose 1,200.

1,200 = 12 hundreds  $= 12 \times$ 

So, 1,200 =  $12 \times 100$ .



• Explain how you use mental math and a pattern to find factors of multiples of 10, 100, or 1,000.



- 1. Complete the exercise below to decompose 2,800.
  - 2,800 = \_\_\_\_\_ × 1
  - 2,800 = \_\_\_\_\_ × 10
  - 2,800 = \_\_\_\_\_ × 100
- 2. Complete the exercise below to decompose 930.
  - $930 = \_$ \_\_\_\_\_tens =  $\_$ \_\_\_\_\_× \_\_\_\_

#### Decompose each number.

**3.** 80 = \_\_\_\_\_ **4.** 320 = \_\_\_\_\_

**5.** 8,000 = \_\_\_\_\_

#### On Your Own

#### **Decompose each number.**

7. 40 = \_\_\_\_\_ **8.** 890 = \_\_\_\_\_ **6.** 90 = \_\_\_\_\_ **10.** 7,000 = \_\_\_\_\_ **11.** 3,700 = \_\_\_\_\_ **9.** 300 =

#### Correct the error. Write the correct decomposition.

**13.**  $4,300 = 43 \times 1,000$ **12.**  $560 = 56 \times 100$ **14.**  $6,000 = 60 \times 10$ 



15. Jon goes to the bank with \$990. How many ten-dollar bills can he get? Show how you found your answer.

**Essential Question** How can you use multiplication to describe a pattern?

## 0

## Unlock the Problem (Real World

You know how to use a rule and a first term to write a sequence. Now, you will describe a sequence using a rule.

#### Describe a pattern.

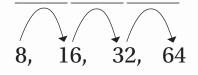
A scientist counts the number of lily pads in a pond each day. She records the number of lily pads in the table below. How many lily pads will be in the pond on days 5 and 6?

Day	1	2	3	4
Lilly Pads	8	16	32	64

**STEP 1** Describe the sequence.

THINK: How do I get from one term to the next?

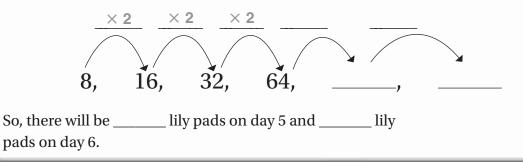
Try multiplying by 2 since  $8 \times 2 = 16$ .



Write a rule to describe the number of lily pads in the pond.



**STEP 2** Find the next two terms in the sequence.



- Do the numbers in the sequence increase or decrease?
- Underline the information you need to find.

Mathematical Practices

**Explain** how you know the rule isn't add 8.

Math

Talk

Share and Show		
1. Find the next two numbers in the pattern be $\times 3 \times $		
1, 3, 9, 27,, Describe the pattern. Then find the next two n		
-	-	
<b>2.</b> 1, 2, 4, 8,,	<b>3.</b> 7, 14, 28, 56,,	
	I	
On Your Own		
Describe the pattern. Then find the next two n	numbers in the pattern.	
-	-	
<b>4.</b> 1, 4, 16, 64,,	<b>5.</b> 2, 6, 18, 54,,	
Determine the pattern and use it to fill in the b	blanks.	
<b>6.</b> 1, 5, 25,, 625 <b>7.</b> 3, 6,	, 24, <b>8.</b> 2,, 32,	<u> </u>
Problem Solving (Red)		
<b>9.</b> A clothing store starts selling a new type of st	sneaker. The table shows	
the number of pairs of sneakers sold in the fi		
pattern continues, how many pairs of sneake	ers will the store sell in	

weeks 5 and 6? Explain.

Week	1	2	3	4
<b>Pairs Sold</b>	5	10	20	40

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0				
Concepts	and Skills			
ound to the near hole number.	est whole dollar or to the	nearest		
1. \$7.23	<b>2.</b> 2.89	3.	0.52	<b>4.</b> \$9.49
ompare the deci	mals. Write <, >, or =.			
5. 0.6 0.60	<b>6.</b> 5.08 5.80	7.	8.14 8.17	<b>8.</b> 7.37 7.32
ead and write the	e numbers in two other for	rms.		
5	illion, three hundred hundred seven	10.	30,000,000 + 40	0,000 + 6,000 + 20 + 2
· · · · · · · · · · · · · · · · · · ·				
Decompose each 1	1umber.			
-				8. 6.000 =
-			13	B. 6,000 =
-			13	8. 6,000 =
1. 20 =	<b>12.</b> 740 = _		13	8. 6,000 =
	12. 740 = _			
<ol> <li>20 =</li> <li>Problem S</li> <li>A new music w</li> </ol>	<b>12.</b> 740 = _	ne numbe	r of members th	at join.
<ol> <li>20 =</li> <li>Problem S</li> <li>A new music w The table show continues, how</li> </ol>	<b>12.</b> 740 =	ne numbe in the firs	r of members th t four days. If the	at join. e pattern
<ol> <li>20 =</li> <li>Problem S</li> <li>A new music w The table show continues, how you found you</li> </ol>	<b>12.</b> 740 =	ne numbe in the firs	r of members th t four days. If the	at join. e pattern

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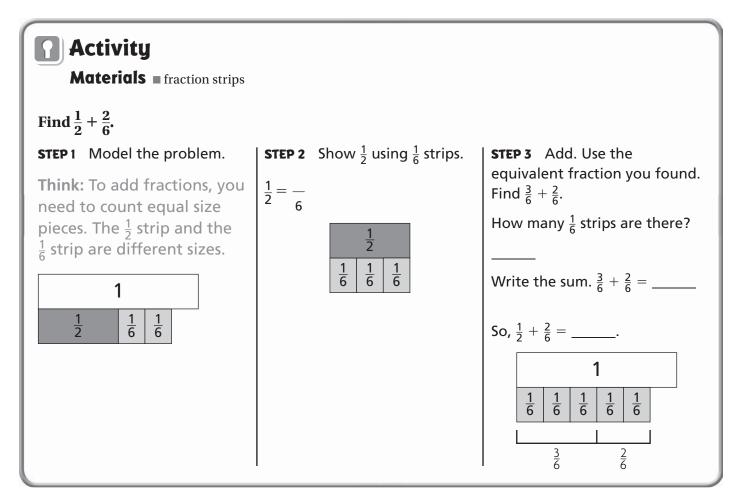
- **15.** A particular female Asian elephant weighs 4.63 tons. What is this decimal written in word form?
  - (A) four and sixty-three tenths
  - **B** four and sixty-three hundredths
  - C four hundred and sixty-three
  - **D** four and sixty-three thousandths
- 16. Joe, Adam, Michael, and Carl all work at an office. Joe earns \$15.53 per hour. Adam earns \$15.59 per hour. Carl earns \$15.95 per hour. Michael earns \$15.91. Who earns the most money per hour?
  - A Joe
  - (B) Adam
  - C Carl
  - **D** Michael
- 17. Which number is ninety-eight million, forty thousand, six hundred fifty three written in another form?
  - **A** 98,040,653
  - **B** 98,400,653
  - © 98,046,053
  - **D** 98,40,653
- 18. Which rule describes the pattern below?
  - 3, 12, 48, 192
  - A Multiply by 2.
  - **B** Multiply by 3.
  - **C** Add 9.
  - **D** Multiply by 4.

#### Name \_

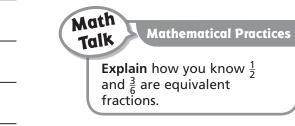
### **Add Related Fractions**

**Essential Question** How can you add fractions when one denominator is a multiple of the other?

When you add fractions, you find how many equal-size pieces there are in all. The denominator shows the size of the pieces. To add fractions with denominators that are not the same, first find equivalent fractions with the same denominator.



• **Describe** how the sizes of the  $\frac{1}{2}$  strip and the  $\frac{1}{6}$  strip compare. Then describe how the denominators of the fractions  $\frac{1}{2}$  and  $\frac{1}{6}$  are related.



#### Getting Ready for Grade 5 P261

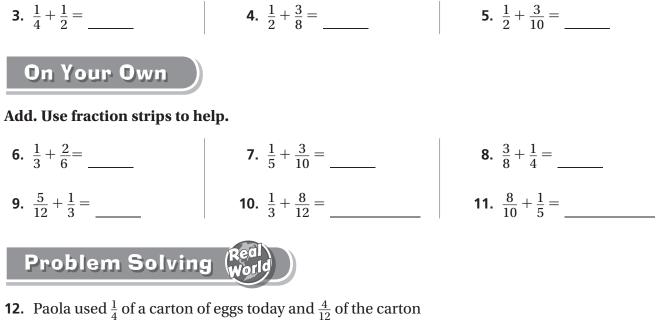


**1.** Explain which fraction strips you could use to add  $\frac{1}{3}$  and  $\frac{3}{6}$ .

**2.** Use fraction strips to add  $\frac{1}{4} + \frac{2}{8}$ .

$$\frac{1}{4} + \frac{2}{8} =$$
\_\_\_\_\_

#### Add. Use fraction strips to help.



12. Paola used  $\frac{1}{4}$  of a carton of eggs today and  $\frac{4}{12}$  of the carton yesterday. What fraction of the carton of eggs did she use in all? **Explain** how you found your answer.

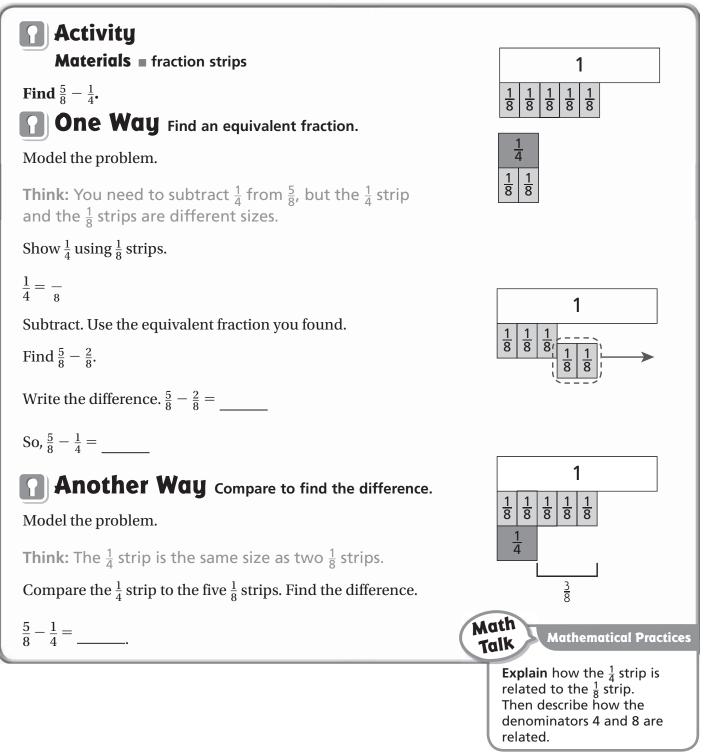
Name .

### **Subtract Related Fractions**

**Essential Question** How can you subtract fractions when one denominator is a multiple of the other?

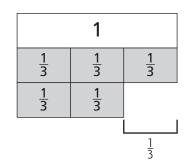
When you subtract fractions, you must use equal-size pieces.

To subtract fractions with different denominators, first find equivalent fractions with the same denominator. You can also compare to find the difference.



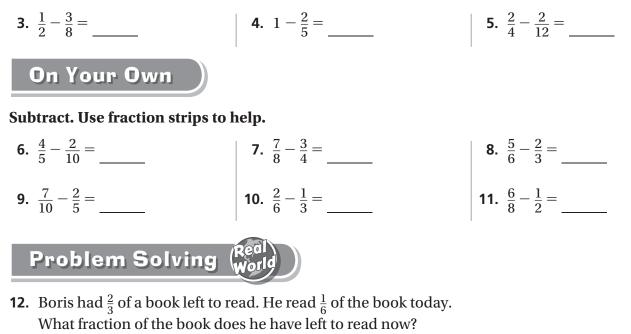


**1.** A student subtracted  $\frac{2}{3}$  from 1 whole as shown at the right. Explain the student's method. Then find the difference.



- **2.** Use fraction strips to subtract  $\frac{5}{6} \frac{1}{2}$ .
  - $\frac{5}{6} \frac{1}{2} =$ \_\_\_\_\_

#### Subtract. Use fraction strips to help.

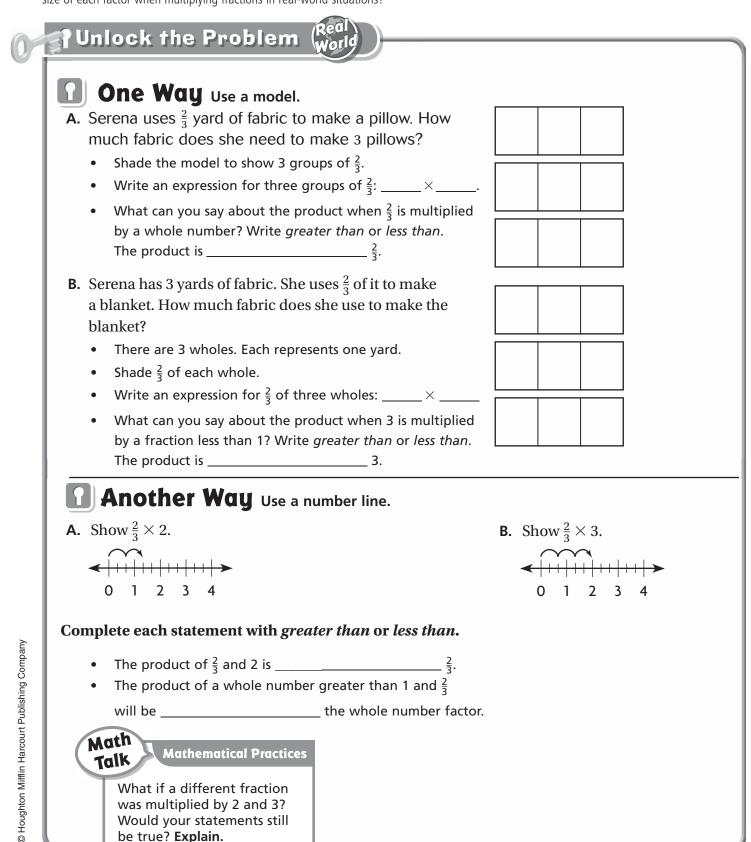


Explain how you found your answer.

#### Name \_

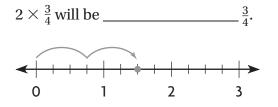
### **Compare Fraction Products**

**Essential Question** How does the size of the product compare to the size of each factor when multiplying fractions in real-world situations?





1. Complete the statement with greater than or less than.



#### Complete each statement with greater than or less than.

**2.**  $3 \times \frac{2}{5}$  will be \_\_\_\_\_\_ 3. **3.**  $3 \times \frac{1}{3}$  will be \_\_\_\_\_\_  $\frac{1}{3}$ 

### On Your Own

#### Complete each statement with greater than or less than.

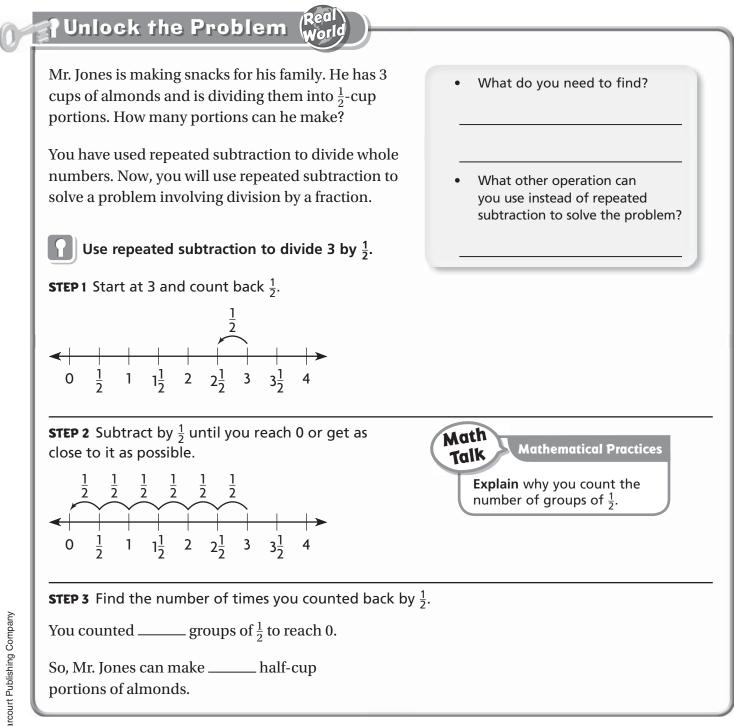


### Problem Solving (World

- 8. Celia wants to sew 4 pillows. She needs  $\frac{3}{8}$  yard of fabric for each pillow. Will she need more than  $\frac{3}{8}$  yard or less than  $\frac{3}{8}$  yard of fabric to make all the pillows? Explain.
- **9.** Rohan walks  $\frac{3}{4}$  mile to school each day. After 5 days, will Rohan have walked more than 5 miles or less than 5 miles to school? Explain.

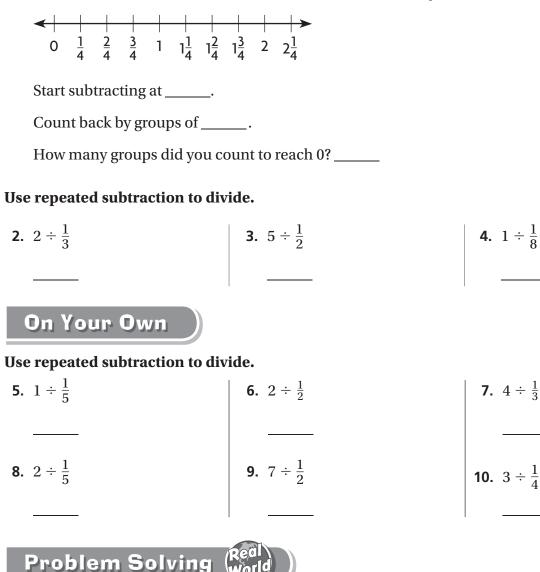
### **Repeated Subtraction with Fractions**

Essential Question How can you use repeated subtraction to solve problems involving division with fractions?





**1.** Use repeated subtraction and the number line to find  $2 \div \frac{1}{4}$ .

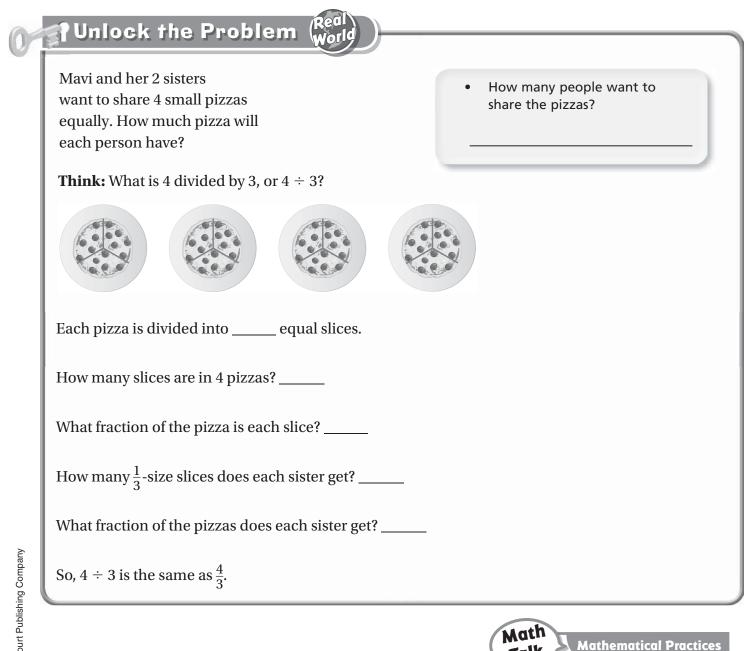


- **11.** You are putting raisins into snack bags. You have 3 cups of raisins. You want to put  $\frac{1}{3}$  cup of raisins in each bag. How many bags can you make?
- **12.** Margaret is cutting straws that are 4 inches long into  $\frac{1}{2}$ -inch pieces. She has two straws. She needs twenty  $\frac{1}{2}$ -inch pieces. Does she have enough to cut 20 pieces? **Explain.**

#### **Fractions and Division**

Essential Question How can you write division problems as fractions?

Division and fractions both show sharing equal numbers of things or making equal-size groups. You can write division problems as fractions.



How can you write  $\frac{4}{3}$  as a mixed number?

Talk



 Alex baked a pan of corn bread and cut it into 12 equal-size pieces. Alex and his 3 sisters want to share the pieces equally.

What division problem can you write to

solve the problem? \_\_\_\_\_

Write the division problem as a fraction.

Write the division problem as a fraction. Write each fraction greater than 1 as a whole number or mixed number.



### On Your Own

Write the division problem as a fraction. Write each fraction greater than 1 as a whole number or mixed number.

6.	$5\div 6$	<b>7.</b> 3 ÷ 2	<b>8.</b> 1 ÷ 8	<b>9.</b> 2 ÷ 4
10	$12 \div 3$	<b>11.</b> 9 ÷ 4	<b>12.</b> 11 ÷ 2	<b>13.</b> 8 ÷ 6
10.	12 · 5		1 <b>2.</b> 11 · 2	<b>15.</b> 0 · 0



**14.** Stefan and his 2 friends want to share 16 muffins equally. Will each friend get more than or less than 5 whole muffins? **Explain** how you know.

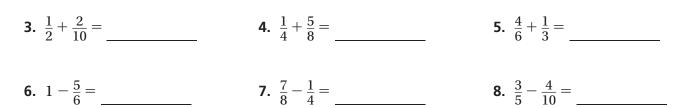
Name \_\_\_

### **Checkpoint**

### **Concepts and Skills**

**Complete each statement with** greater than or less than. **1.**  $3 \times \frac{3}{9}$  will be \_\_\_\_\_\_ 3. **2.**  $\frac{7}{8} \times 3$  will be \_\_\_\_\_\_  $\frac{7}{8}$ .

Add or subtract. Use fraction strips to help.



Write the division problem as a fraction. Write each fraction greater than 1 as a whole number or mixed number.

**9.** 
$$7 \div 8 =$$
 \_\_\_\_\_ **10.**  $8 \div 5 =$  \_\_\_\_\_ **11.**  $16 \div 3 =$  \_\_\_\_\_

Use repeated subtraction to divide.

**12.**  $3 \div \frac{1}{5} =$  \_\_\_\_\_ **13.**  $4 \div \frac{1}{2} =$  \_\_\_\_\_ **14.**  $6 \div \frac{1}{3} =$  \_\_\_\_\_

Problem Solving (Real World

**15.** Manny had  $\frac{3}{4}$  of his paper written. He wrote another  $\frac{1}{8}$  of the paper today. What fraction of the paper does he have left to write now? Explain how you found your answer.

#### Fill in the bubble completely to show your answer.

- **16.** Mr. Martin is going to paint 5 small rooms. He needs  $\frac{3}{4}$  gallon of paint for each room. How much paint will he need to paint all of the rooms?
  - (A) less than  $\frac{3}{4}$  gallon
  - (B) more than  $\frac{3}{4}$  gallon
  - $\bigcirc$  exactly  $\frac{3}{4}$  gallon
  - (D) exactly 5 gallons
- **17.** A chef is preparing individual-size pies. She has 4 cups of strawberries to put in the pies. She wants to put  $\frac{1}{4}$  cup of strawberries in each pie. How many pies can she make?
  - **A** 4
  - **B** 8
  - **(C)** 14
  - **D** 16
- 18. Which shows the division problem 6  $\div$  4 written as a fraction or mixed number?
  - (A)  $\frac{4}{6}$
  - **B**  $1\frac{1}{4}$
  - (C)  $1\frac{2}{4}$
  - **D**  $2\frac{2}{4}$
- 19. Pablo ate  $\frac{1}{4}$  of a pizza yesterday and  $\frac{3}{8}$  of the pizza today. What fraction of the pizza did he eat in all?
  - $\textcircled{A} \frac{5}{8}$
  - **B**  $\frac{4}{12}$
  - $\bigcirc \frac{4}{8}$
  - $(D) \frac{3}{8}$

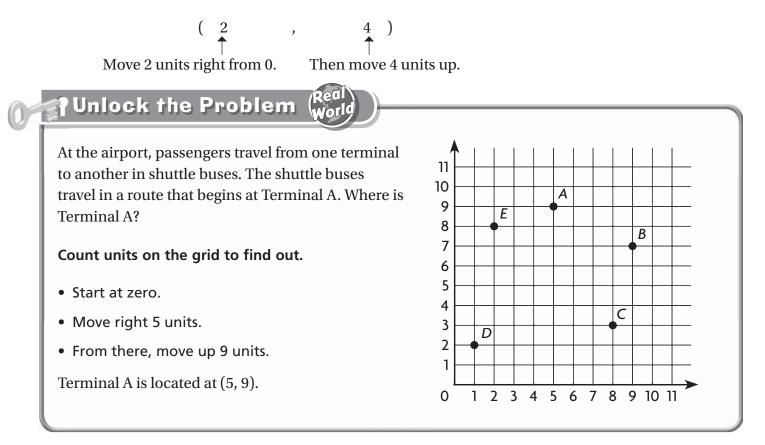
#### Name \_

#### Locate Points on a Grid

**Essential Question** How can you use ordered pairs to locate points on a grid?

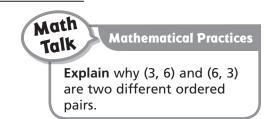
An ordered pair is a pair of numbers that names a point on a grid.

The first number shows how many units to move horizontally. The second number shows how many units to move vertically.



#### Try This!

What terminal is located at (8, 3)? Explain how you know.



#### Share and Show



 To graph the point (6, 3), where do you start? In which direction and how many units will you move first? What will you do next? Describe the steps and record them on the grid.

Use the grid for Exercises 2–5. Write the ordered pair for each point.

<b>2.</b> A	<b>3.</b> <i>B</i>	<b>4.</b> <i>C</i>	<b>5.</b> D

### On Your Own

Use the grid for Exercises 6–13.

Wri	ite the o	rdered	pair	for each point.
6	F	7	F	8 G

).	$\boldsymbol{E}$	

or ea	ach point.			
	<b>8.</b> G		9.	H
		-		-

#### Write the point for each ordered pair.

**10.** (3, 8)

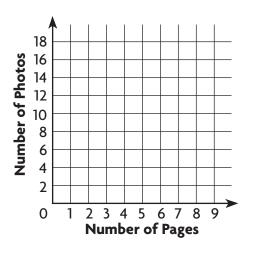
**11.** (8, 9) **12.** (1, 9)

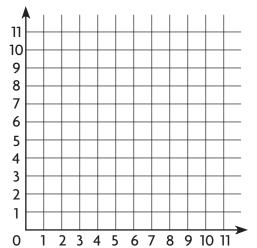
**13.** (0, 5)

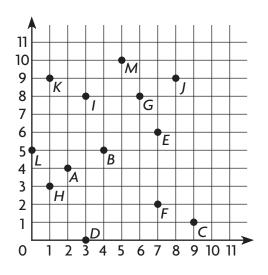


There are four photos on each page of a photo album. Complete the table. Write the data in the table as ordered pairs. Then graph the ordered pairs on the grid. Use the number of pages as the first number and the number of photos as the second number in the ordered pair.

14.	Number of Pages	1		3	4
	Number of Photos	4	8		







#### Name \_\_\_\_\_

### Area and Tiling

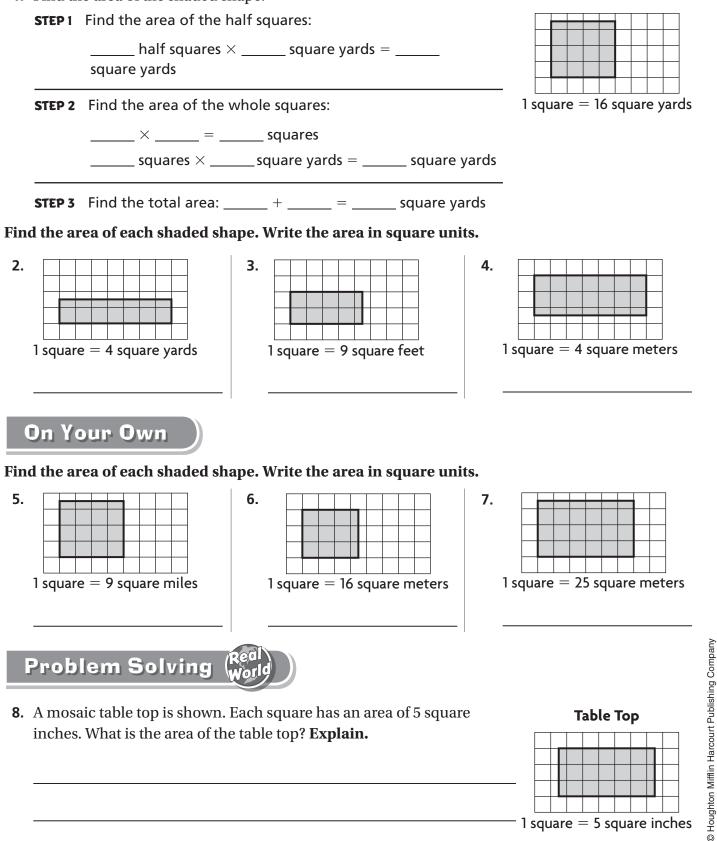
**Essential Question** How can you use tiling to find the area of a rectangle?

Unlock the Problem Rhonda is tiling the floor of her new Underline what you are asked sunroom. The diagram shows the layout to find. of the tiles. Each tile measures 4 square feet. • Circle the information you will What is the area of Rhonda's sunroom floor? use to solve the problem. To find the area of the sunroom floor, you can combine Rhonda's Sunroom Floor the areas of the half tiles and the whole tiles. Find the area of the sunroom floor. **STEP1** Find the area of the half tiles. Count the number of half tiles. 1 tile = 4 square feet, so 1 half tile =  $4 \div 2$  or \_\_\_\_\_ square feet. Multiply the number of half tiles by \_\_\_\_\_ square feet to find the area of the half tiles: 1 tile = 4 square feet**STEP 2** Find the area of the whole tiles. Find the number of whole tiles:  $b \times h = \_\_\_ \times \_\_=$ Remember tiles The formula for the area of a rectangle is Since the area of 1 tile is \_\_\_\_\_\_ square feet, multiply the  $A = b \times h$  or  $I \times w$ . number of whole tiles by \_\_\_\_\_ to find the area of the whole tiles. Math Mathematical Practices Talk **Explain** how to find the area of 6 half tiles if 1 whole tile **STEP 3** Find the total area. is 9 square inches. Add the areas of the half tiles and whole tiles. half tiles whole tiles  $\downarrow$   $\downarrow$ \_\_\_\_\_ + \_\_\_\_ = \_\_\_\_ square feet So, the area of Rhonda's sunroom floor is \_\_\_\_\_\_ square feet.

### Share and Show



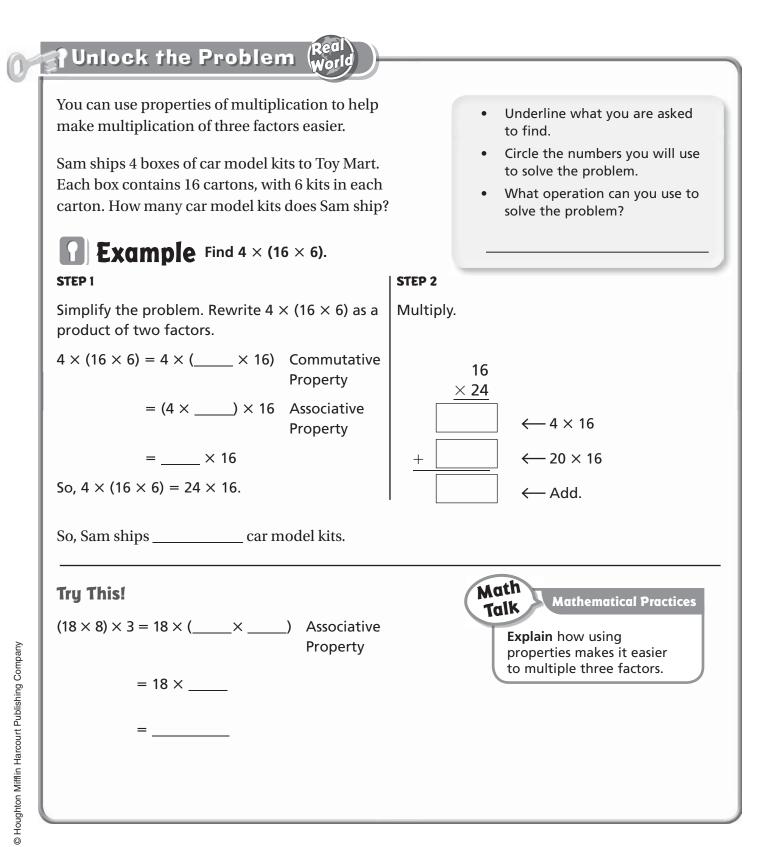
**1.** Find the area of the shaded shape.



P276

### **Multiply Three Factors**

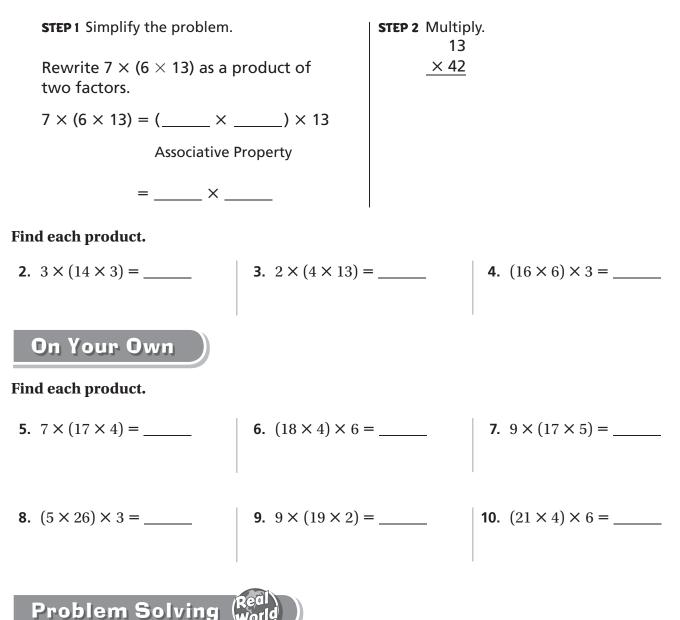
Essential Question How can you find the product of three factors?



#### Share and Show



**1.** Find the product of  $7 \times (6 \times 13)$ .



- **11.** There are 3 basketball leagues. Each league has 8 teams. Each team has 13 players. How many players are there in all 3 leagues?
- **12.** There are 8 boxes of tennis balls. There are 24 cans of tennis balls in each box. There are 3 tennis balls in each can. How many tennis balls are there in all?

Lesson 20

#### Name \_\_\_\_\_

#### Find Area of the Base

Example

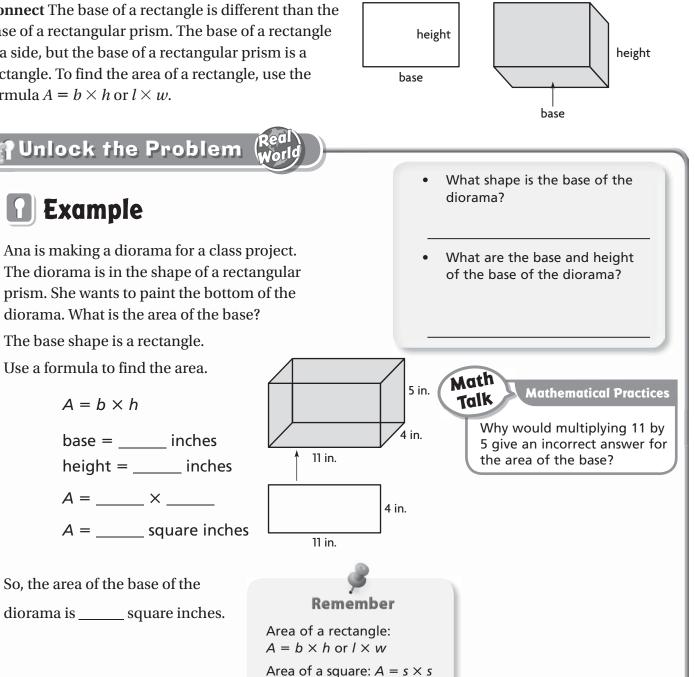
The base shape is a rectangle.

 $A = b \times h$ 

So, the area of the base of the

**Essential Question** How can you find the area of the base of a rectangular prism?

Connect The base of a rectangle is different than the base of a rectangular prism. The base of a rectangle is a side, but the base of a rectangular prism is a rectangle. To find the area of a rectangle, use the formula  $A = b \times h$  or  $l \times w$ .



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### Share and Show



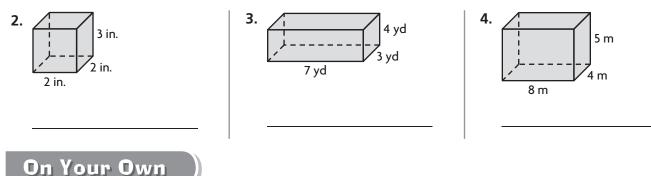
- **1.** Find the area of the base of the rectangular prism.
  - The base shape is a \_\_\_\_\_.

length = \_\_\_\_\_ yards, width = \_\_\_\_\_ yards

 $A = \underline{\qquad} \times \underline{\qquad} = \underline{\qquad}$  square yards

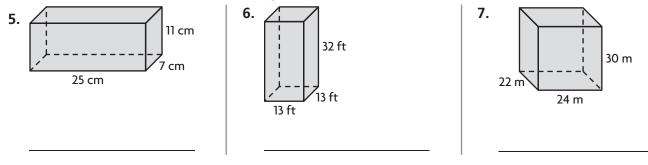
So, the area of the base is \_\_\_\_\_\_ square yards.

#### Find the area of the base of the rectangular prism.



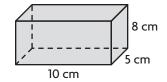
base

#### Find the area of the base of the rectangular prism.



### Problem Solving (Real World)

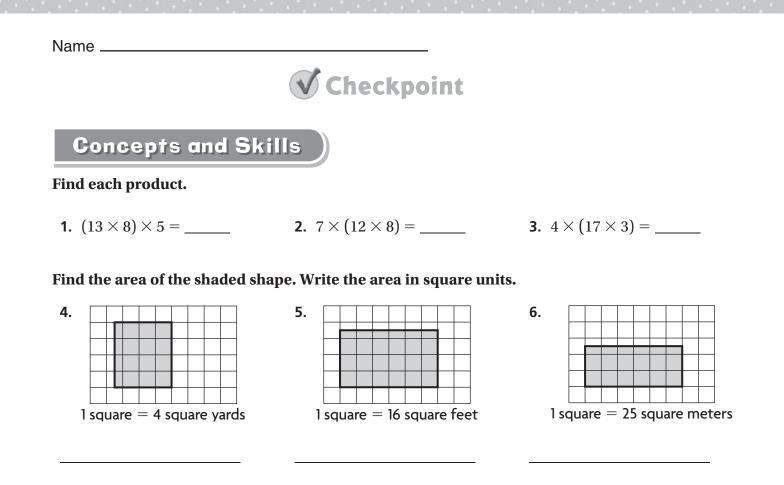
8. Julio makes sugar cubes for horses. Each sugar cube edge is 1 centimeter in length. He packs the sugar cubes in the box shown without gaps. Julio says he can fit 80 sugar cubes in the bottom layer. Is he correct? Explain.



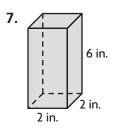
3 yd

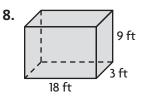
2 yd

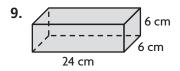
5 yd



Find the area of the base of the rectangular prism.







### Problem Solving (Real

**10.** There are 6 grades competing in a spelling bee. Each grade has 10 teams. Each team has 4 members. How many members are competing in the spelling bee?

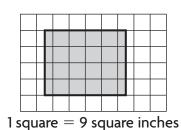
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#### Fill in the bubble completely to show your answer.

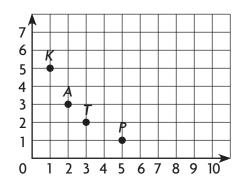
- **11.** There are 9 crates of oranges. There are 18 boxes of oranges in each crate. There are 6 bags of oranges in each box. How many bags of oranges are there in all?
  - **A** 108
  - **B** 162
  - **(C)** 972
  - **D** 1152
- **12.** A small tiled balcony is shown. Each tile is 9 square inches. What is the area of the shaded section in square inches?
  - A 20 square inches
  - **B** 144 square inches
  - C 162 square inches
  - **D** 180 square inches
- **13.** Which ordered pair names point *A* on the grid?
  - **A** (1, 5)
  - **B** (2, 3)
  - **(**3, 2)
  - **D** (5, 1)

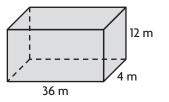
14. What is the area of the base of the rectangular prism?

- **A** 40 square meters
- **B** 48 square meters
- C 144 square meters
- **D** 432 square meters



. .





Getting Ready for Grade 5 GRP1

#### 5. \$26.71 6. + \$ 5.09

Problem Solving

How much does Mr. Asham pay in all?

the total cost for these two items?

<b>9.</b> \$ 7.76	<b>10.</b> \$21.06	<b>11.</b> \$34.59	<b>12.</b> \$53.97
+ \$54.02	+ \$63.48	+ \$ 7.45	+ \$60.00
<b>13.</b> \$71.25	<b>14.</b> \$40.39	<b>15.</b> \$14.99	<b>16.</b> \$22.85
+ \$ 5.90	+ \$17.25	+ \$ 5.23	+ \$40.25
<b>17.</b> \$ 5.23	<b>18.</b> \$43.32	<b>19.</b> \$31.26	<b>20.</b> \$83.77
+ \$30.55	+ \$86.85	+ \$88.90	+ \$60.35

3.

7.

\$98.45

\$54.01

+ \$85.23

+ \$ 4.76

### **Add Dollars and Cents**

2.

\$7.96

+ \$3.08

\$30.25

+ \$27.42

**21.** The bill for tonight's dinner is \$56.85. Mr. Asham adds a \$10.50 tip.

#### Find the sum.

1.

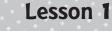
111

\$58.36

+ \$ 5.87

\$64.23

Name \_\_\_\_\_



4.

8.

\$14.66

\$42.49

+ \$30.73

+ \$30.76

### **Subtract Dollars and Cents**

#### Find the difference.

1.	12 72/16 \$58.36/ <u>- \$26.87</u> <b>\$31.49</b>	<b>2.</b> \$3.05 <u>- \$1.18</u>	<b>3.</b> \$9.43 <u>- \$7.08</u>	<b>4.</b> \$6.25 <u>-</u> \$4.88
5.	\$15.20	<b>6.</b> \$64.66	<b>7.</b> \$80.00	<b>8.</b> \$52.03
	<u>- \$ 9.47</u>	<u>- \$ 3.85</u>	<u>- \$ 9.99</u>	<u>- \$ 7.46</u>
9.	\$73.18	<b>10.</b> \$21.64	<b>11.</b> \$48.57	<b>12.</b> \$60.35
	<u>- \$18.42</u>	<u>- \$10.95</u>	<u>- \$20.69</u>	<u>- \$39.54</u>
13.	\$91.32	<b>14.</b> \$23.06	<b>15.</b> \$58.30	<b>16.</b> \$41.45
	<u>- \$ 8.79</u>	<u>- \$ 6.97</u>	<u>- \$ 9.41</u>	<u>- \$ 7.59</u>
17.	\$34.20	<b>18.</b> \$56.20	<b>19.</b> \$43.17	<b>20.</b> \$95.44
	- \$18.15	<u>- \$20.50</u>	<u>- \$30.09</u>	<u>- \$78.56</u>



**21.** A soccer ball costs \$17.99. Karla hands the cashier \$20.00. How much change does she get back?

# **22.** Hal earned \$56.50 dog sitting last month. Liz earned \$87.00. How much more did Liz earn than Hal?

Name \_

#### **Order of Operations**

Follow the order of operations to find the value of the expression. Show each step.

1.	$3 + (18 \times 2) \div 3$	2.	(20-8) imes 2	3.	$(48 \div 6) + 5$	
	3 + 36 ÷ 3 3 + 12 15					
4.	$(9 \times 4) + 6$	5.	(10+5) imes 9	6.	$(40 \div 10) + 11$	
7.	$5+(21\div3) imes 5$	8.	$7  imes 4 + (15 \div 3)$	9.	$6 + (24 \div 8) - 3$	
10.	$43 - 28 + (12 \div 2)$	11.	$(13 \times 2) - 2 - 5$	12.	$15+6 imes(8\div4)$	
Problem Solving (Real world						

**13.** Each carton has 12 eggs. There are 2 full cartons in the refrigerator. Margot uses 3 eggs to make a quiche. How many eggs are left?

spaces. At 9 o'clock the lot is full. An hour later, there are 15 empty spaces. How many cars are in the lot an hour later?

14. There are 6 rows in the parking lot. Each row has 12 parking

### Divide by Multiples of Ten

#### Divide. Use a pattern to help.

1. $1,500 \div 30 = 50$ $15 \div 3 = 5$ , so $150 \div 30 = 1,500 \div 30 = 1$	5.	<b>3.</b> 4,000 ÷ 80 =
<b>4.</b> 6,000 ÷ 30 =	<b>5.</b> 9,000 ÷ 30 =	<b>6.</b> 8,000 ÷ 40 =
<b>7.</b> 1,000 ÷ 20 =	<b>8.</b> 3,500 ÷ 50 =	<b>9.</b> 8,100 ÷ 90 =
<b>10.</b> 6,400 ÷ 80 =	<b>11.</b> 2,400 ÷ 60 =	<b>12.</b> 6,000 ÷ 60 =
<b>13.</b> 2,100 ÷ 70 =	<b>14.</b> 5,400 ÷ 90 =	<b>15.</b> 2,700 ÷ 30 =



- **16.** A food bank has 3,600 boxes of food. The boxes will be loaded equally onto 60 trucks. How many boxes of food will be on each truck?
- **17.** A stadium has a seating capacity of 8,000. Suppose it is divided into 20 equal sections. How many seats are in each section? **Explain.**

N	ล	m	P	
IN	a	111	E.	

# Model Division with 2-Digit Divisors

Use base-ten blocks to divide.

<b>1.</b> 154 ÷ 11	<b>2.</b> 48 ÷ 16	<b>3.</b> 95 ÷ 19	<b>4.</b> 288 ÷ 16
14			
<b>5.</b> 120 ÷ 15	<b>6.</b> 140 ÷ 10	<b>7.</b> 132 ÷ 12	<b>8.</b> 204 ÷ 12
<b>9.</b> 250 ÷ 10	<b>10.</b> 154 ÷ 11	<b>11.</b> 39 ÷ 13	<b>12.</b> 165 ÷ 11

Problem Solving (Red)

- **13.** A theater has 126 seats. The theater has 14 rows with the same number of seats in each row. How many seats are in each row?
- **14.** Leila has \$360 in twenty-dollar bills. How many twenty-dollar bills does she have?

### **Place Value Through Millions**

#### Read and write the number in two other forms.

1.	4,520,696	2.	thirty-one millio		3.	80,000,000 + 40,000 +
	four million, five		thousand, one h fifty	unarea		900 + 60
	hundred twenty					
	thousand, six					
	hundred ninety-six;					
	4,000,000 + 500,000					
	+ 20,000 + 600					
	+ 90 + 6					
Wri	te the value of the underlined	dig	git.			
4.	<u>4</u> ,520,696 <b>5.</b> <u>7</u> 9,2	41,0	<b>4</b> 3 <b>6</b> .	<u>2</u> ,138,824		<b>7.</b> <u>6</u> 3,446,364
	Problem Solving 🖁	eal Iorl	d			
	During one decade, the total n		her 9	In 2007 the	noni	ulation of the United States
0.	of visitors to an annual arts fes	tiva	l was	was estimate	ed to	be 3 <u>1</u> ,139,947. Which place
	84,303,912. Write 84,303,912 ir form, word form, and expande			value does t this number		nderlined digit represent in
	,				•	

Name \_\_\_\_\_

### **Decimals and Place Value**

#### Read and write the decimal in two other forms.

- 1. 7.32 seven and thirty-two hundredths; 7 + 0.3 + 0.02
- **3.** 20 + 5 + 0.8 + 0.01

**2.** two and six tenths

**4.** 86.04

#### Write the value of the underlined digit.

5. 6.2 <u>4</u> <b>0.04</b>	<b>6.</b> 3. <u>2</u>	<b>7.</b> <u>9</u> .07	<b>8.</b> 0.4 <u>8</u>
<b>9.</b> <u>1</u> .65	<b>10.</b> 0. <u>9</u>	<b>11.</b> 5.1 <u>3</u>	<b>12.</b> 10. <u>8</u> 2



#### Use the table below for 13 and 14.

Three runners finished a foot race with the following times.

#### Foot Race Times

Runner	Time (in seconds)
Erika	15.46
Andre	14.89
Conner	15.08

- **13.** Which runner finished the race with a time that has the digit 8 in the hundredths place?
- **14.** What is Erika's time written in expanded form?

Name \_\_\_\_\_

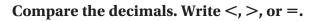
### **Round Decimals**

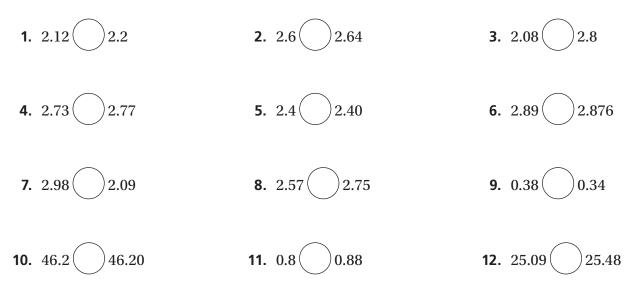
Rou	Round to the nearest dollar or to the nearest whole number.						
1.	\$3.18	2.	4.7	3.	\$7.02	4.	8.55
5.	\$1.89	6.	0.2	7.	\$0.75	8.	9.09
9.	\$9.51	10.	1.01	11.	\$8.49	12.	6.35
13.	\$0.85	14.	5.9	15.	\$1.05	16.	4.5
17.	\$4.15	18.	3.65	- 19.	\$1.99	20.	5.52
				_		-	

Problem Solving (Real World

- **21.** Camden spends \$18.25 at the driving range. How much money did Camden spend, rounded to the nearest dollar?
- **22.** Jolie bought 3.75 pounds of turkey at the deli. About how many pounds of turkey did Jolie buy?

### **Place Value to Compare Decimals**





Use a place-value chart to order the decimals from least to greatest.

13.	0.41, 0.49, 0.45	14.	8.95, 8.98, 8.9	15.	2.7, 2.77, 2.07
16.	1.23, 1.27, 1.25	17.	9.9, 9.99, 9.94	18.	3.4, 3.04, 3.44



- **19.** Veronica drank 0.5 liter of water. Hector drank 0.3 liter of water. Who drank less water?
- **20.** Abby spent \$6.36 on her lunch and Colby spent \$6.63 on his lunch. Who spent less money on lunch—Abby or Colby?

Lesson 10

Name \_\_\_\_\_

### Decompose Multiples of 10, 100, 1,000

Decompose each number.

<b>1.</b> 60 =	<b>2.</b> 30 =	<b>3.</b> 570 =
<b>4.</b> 900 =	<b>5.</b> 4,000 =	<b>6.</b> 2,800 =
<b>7.</b> 730 =	<b>8.</b> 1,700 =	<b>9.</b> 2,000 =
Correct the error. Write t	he correct decomposition.	
<b>10.</b> $980 = 98 \times 100$	<b>11.</b> 1,700 = 17 × 1,000	<b>12.</b> 8,000 = 80 × 100
<b>13.</b> 700 = 70 × 100	<b>14.</b> $6,400 = 64 \times 1,000$	<b>15.</b> 5,000 = 50 × 1,000
<b>16.</b> $920 = 92 \times 100$	<b>17.</b> 7,700 = 77 × 1,000	<b>18.</b> 280 = 28 × 100

Problem Solving 🖁

**19.** There are 240 students in the middle-school band. The band director is dividing the students into groups of 10. Into how many groups will the band director divide the students?

Name \_

#### **Number Patterns**

Des	scribe the pattern. Then find tl	ne next two numb	ers	<b>S</b>				
in t	he pattern.							
1.	4, 12, 36, 108, <u>324</u> , <u>97</u> Multiply by 3.	<u>2</u>	2.	14, 28, 56, 112,,				
3.	2, 8, 32, 128, ,		4.	1, 5, 25, 125,,				
Det	Determine the pattern and use it to fill in the blanks.							
5.	1, 6, 36,, 1,296	<b>6.</b> 2, 6,, 54,		<b>7.</b> 3, 12,, 76	8			
8.	,, 36, 108, 324	<b>9.</b> , 2, 4, 8, _		<b>10.</b> 5, 20,, 320,	-			

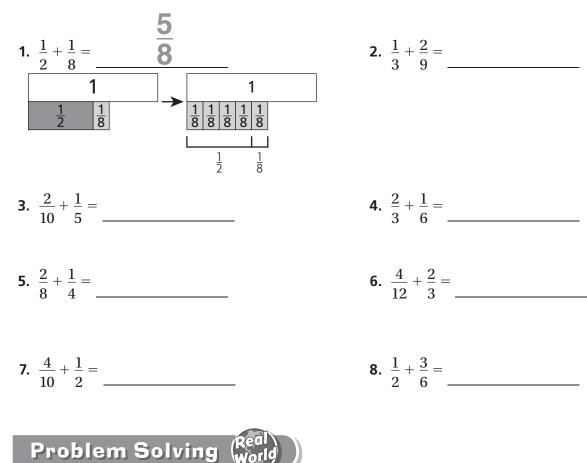


**11.** Pippen works at an aquarium. Each month, she counts the number of fish in one of the aquariums. She records the total number of fish in the table below. If the pattern continues, how many fish will be in the aquarium in Months 6 and 7?

Month	1	2	3	4	5
Number of Fish	4	8	16	32	64

#### **Add Related Fractions**

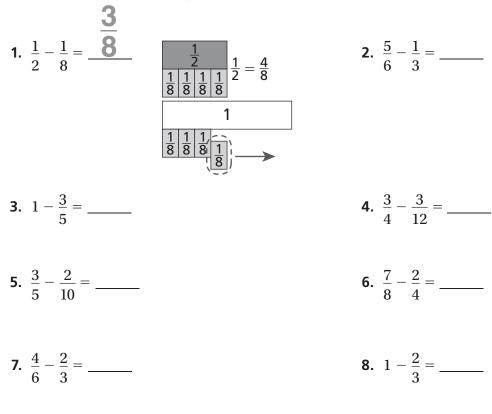
Add. Use fraction strips to help.



- **9.** The Lin family bought a dozen bagels. They ate  $\frac{1}{4}$  of the bagels today and  $\frac{5}{12}$  of the bagels yesterday. What fraction of the bagels did they eat in all? Explain how you found your answer.
- **10.** The Smith family ate  $\frac{3}{5}$  of a pizza for dinner and  $\frac{2}{10}$  of the pizza for lunch the next day. How much of the pizza did they eat in all? Explain how you found your answer.

### **Subtract Related Fractions**

Subtract. Use fraction strips to help.

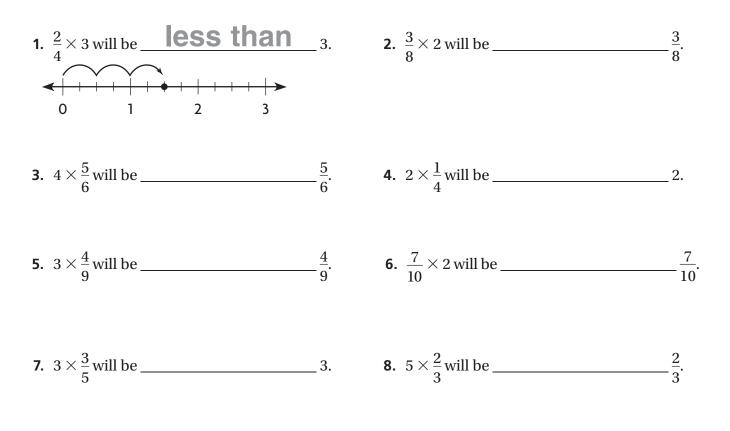


### Problem Solving Wor

- **9.** Fabia buys  $\frac{5}{8}$  pound of red grapes and  $\frac{1}{4}$  pound of green grapes. How many more pounds of red grapes does she buy? Explain how you found your answer.
- **10.** Geraldo has  $\frac{9}{12}$  mile left to hike to reach the end of the trail. He hikes  $\frac{2}{3}$  mile. What fraction of a mile does he have left to hike? Explain how you found your answer.

#### **Compare Fraction Products**

#### Complete each statement with greater than or less than.

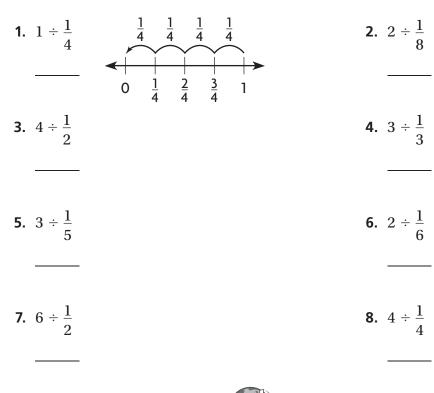


### Problem Solving (Real World

- **9.** Jen is making 3 loaves of banana bread. She needs  $\frac{3}{4}$  cup sugar for each loaf. Will she need more or less than 3 cups of sugar to make all 3 loaves? Explain.
- **10.** Tafua exercises for  $\frac{5}{6}$  hour every day. After 2 days, will Tafua have exercised for less than or more than  $\frac{5}{6}$  hour? Explain.

### **Repeated Subtraction with Fractions**

Use repeated subtraction to divide.

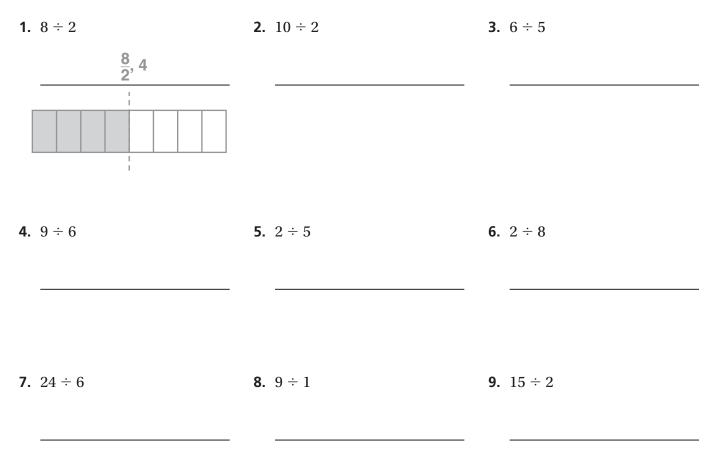


### Problem Solving Wo

- **9.** Harold has 4 cups of trail mix. He wants to give  $\frac{1}{3}$  cup trail mix to each camper in his group. There are 8 campers in his group. Does he have enough trail mix for all the campers? Explain.
- **10.** Marita is cutting rolls of ribbon that are 3 feet long into  $\frac{1}{2}$ -foot pieces. She needs fifteen  $\frac{1}{2}$ -foot pieces for a project. She has 3 rolls of ribbon. Does she have enough to cut 15 pieces? Explain.

#### **Fractions and Division**

# Write the division problem as a fraction. Write each fraction greater than 1 as a whole number or mixed number.





**10.** There are 13 bagels in a baker's dozen. Hillary, Mark, and Tam share the bagels equally. Will each friend get more than or fewer than 4 whole bagels? Explain.

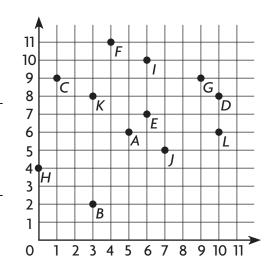
Name \_

#### Locate Points on a Grid

Use the grid for 1-12.

Write the ordered pair for each point.

1.	A	2.	В	3.	С
4.	(5, 6) D	5.	 E	6.	F
	ite the point for (9, 9)		<b>ordered pair.</b> (0, 4)	9.	(6, 10)
10.	(7,5)	11.	(3, 8)	12.	(10, 6)

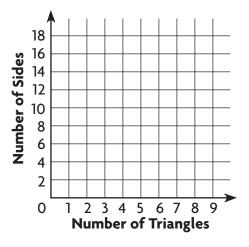


## Problem Solving World

There are 3 sides in a triangle. Complete the table. Write ordered pairs from the table. Then graph the ordered pairs on the grid.

13.

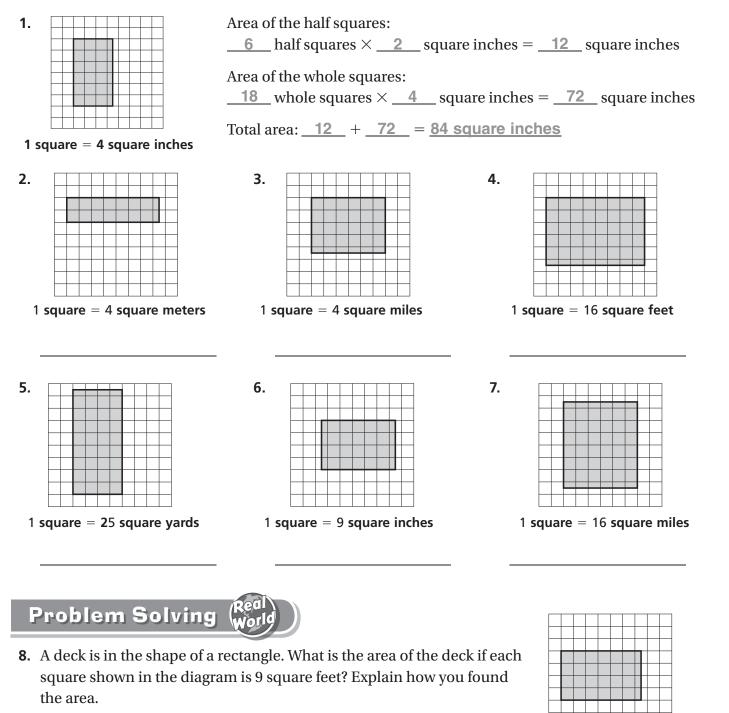
Number of Triangles	1	2		4	
Number of Sides	3		9		



Name \_\_\_\_\_

### **Area and Tiling**

# Find the area of the shaded shape. Write the area in square units.



1 square = 9 square feet

Name \_

#### **Multiply Three Factors**

Find each product.		
<b>1.</b> $6 \times (4 \times 17)$ $6 \times (4 \times 17) = (\underline{6} \times \underline{4})$ $= \underline{24} \times \underline{1}$ $= \underline{408}$	imes 24	
<b>2.</b> (28 × 8) × 3 =	<b>3.</b> (13 × 9) × 4 =	<b>4.</b> (6 × 26) × 3 =
<b>5.</b> 6 × (15 × 7) =	<b>6.</b> 2 × (8 × 18) =	<b>7.</b> (4 × 21) × 4 =
<b>8.</b> 8 × (4 × 33) =	<b>9.</b> 3 × (44 × 6) =	<b>10.</b> (36 × 9) × 5 =

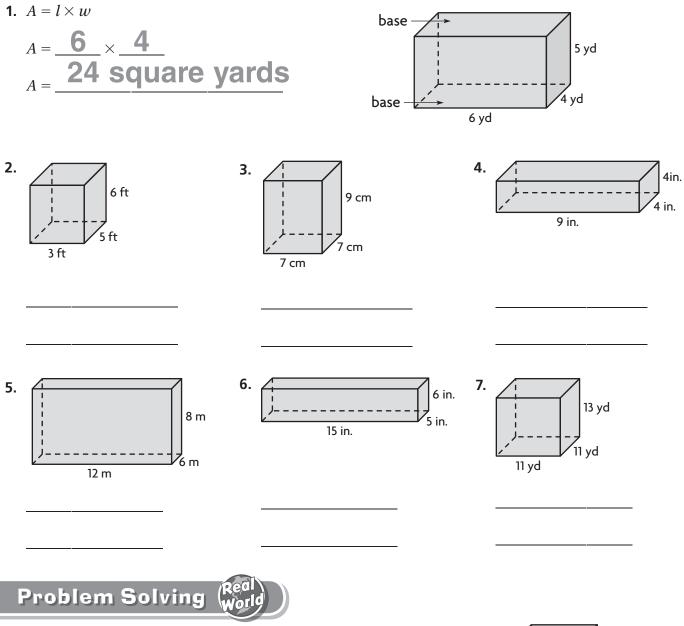
Problem Solving (Red

- **11.** There are 9 rows of 28 chairs set up for a play. A ticket to the play costs \$4. How much money will be made on ticket sales if all the seats are sold for the play?
- 12. Three families are sharing the cost of renting a canoe for 7 days. The cost for each family is \$14 per day. What is the total cost of renting the canoe for 7 days from the rental shop?

Name \_

#### Find Area of the Base

Find the area of the base of the rectangular prism.



8. Mr. Patell is packing square tiles in the box shown without gaps or overlaps. Each tile lies flat and measures 1 inch on a side. Mr. Patell says he can fit 64 tiles in the bottom layer. Is he correct? Explain.



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8 in.

5 in.

8 in.