# **Lesson 1 Homework Practice**

## **Algebraic Expressions**

Evaluate each expression if r = 5, s = 2, t = 7, and u = 1.

**1.** *s* + 7 **2.** 9 – u**3.** 3*t* + 1 **4.** 5r - 4**5.** t - s**6.** *u* + *r* 7. 11t - 7**8.** 6 + 3*u* **9.** 4r - 10s**10.**  $3u^2$ 11.  $2t^2 - 18$ 12.  $r^2 + 8$ **15.**  $\frac{(3+u)^2}{8}$ 14.  $\frac{30}{r}$ **13.**  $\frac{s}{2}$ 

Evaluate each expression if a = 4.1, b = 5.7, and c = 0.3.

**17.** 10 - (a + b)**18.** b - c + 2**16.** a + b - c

**19. MOON** The expression  $\frac{w}{6}$  gives the weight of an object on the Moon in pounds with a weight of w pounds on Earth. What is the weight of a space suit on the Moon if the space suit weighs 178.2 pounds on Earth?

#### **20.** Complete the table.

Pounds (p)	Ounces (16p)
1	16
2	32
3	
4	
5	

# **Lesson 1 Problem-Solving Practice**

## Algebraic Expressions

<ol> <li>FIELD TRIP The seventh grade math classes are going on a field trip. The field trip will cost \$7 per student. Write an expression to find the cost of the field trip for <i>s</i> students. What is the total cost if 26 students go on the trip?</li> </ol>	2. SOCCER Jason earns \$20 per game as a referee in youth soccer games. Write an expression to find how much money Jason will earn for refereeing any number of games. Let <i>n</i> represent the number of games Jason has refereed. How much will he earn for refereeing 6 games?
<b>3. PROFIT</b> The expressions $c - e$ , where $c$ stands for the money collected and $e$ stands for the expenses, is used to find the profit from a basketball concession. If \$500 was collected and expenses were \$150, find the profit for the concession.	4. SAVINGS Kata has a savings account that contains \$230. She decides to deposit \$5 each month from her monthly earnings for baby-sitting after school. Write an expression to find how much money Kata will have in her savings account after <i>x</i> months. Let <i>x</i> represent the number of months. Then find out how much she will have in her account after 1 year.
<b>5. MONEY</b> Mr. Wilson has \$2,500 in his savings account and <i>m</i> dollars in his checking account. Write an expression that describes the total amount that he has in both accounts.	<ul> <li>6. ANIMALS Write an expression to represent the total number of legs on <i>h</i> horses and <i>c</i> chickens. How many legs are there in 5 horses and 6 chickens?</li> </ul>
<ul> <li>7. T-SHIRTS The band wants to order T-shirts. The T-shirts cost \$15 each plus a shipping fee of \$10. Write an expression to find the total cost of <i>c</i> T-shirts.</li> </ul>	8. TEMPERATURE The expression $\frac{9}{5}C + 32$ , where <i>C</i> stands for temperature in degrees Celsius, is used to convert Celsius to Fahrenheit. If the temperature is 20 degrees Celsius, find the temperature in degrees Fahrenheit.

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## **Lesson 2 Homework Practice**

## Sequences

Describe the relationship between the terms in each arithmetic sequence. Then write the next three terms in each sequence.

<b>1.</b> 0, 5, 10, 15,	<b>2.</b> 1, 3, 5, 7,	<b>3.</b> 18, 27, 36, 45,
<b>4.</b> 7, 19, 31, 43,	<b>5.</b> 8, 18, 28, 38,	<b>6.</b> 25, 26, 27, 28,
<b>7.</b> 0.4, 0.8, 1.2, 1.6,	<b>8.</b> 3.7, 3.7, 3.7, 3.7,	<b>9.</b> 5.1, 6.2, 7.3, 8.4,
<b>10.</b> 17, 31, 45, 59,	<b>11.</b> 30, 50, 70, 90,	<b>12.</b> 14, 41, 68, 95,

NUMBER SENSE Find the 40th term in each arithmetic sequence. **13.** 4, 8, 12, 16, ... **14.** 13, 26, 39, 52, ... **15.** 6, 12, 18, 24, ...

- **16. GEOMETRY** The lengths of the sides of a 6-sided polygon are an arithmetic sequence. The length of the shortest side is 3 meters. If the length of the next longer side is 5 meters, what is the length of the longest side?
- 17. FREE FALLING OBJECT A free falling object increases speed by a little over 22 miles per hour each second. The arithmetic sequence 22, 44, 66, ..., represents the speed after each second, in miles per hour, of a dropped object. How fast is a rock falling after 8 seconds if it is dropped over the side of a cliff?

# **Lesson 2 Problem-Solving Practice**

## Sequences

1. NUMBERS The multiples of two form a sequence as follows: 2, 4, 6, 8, 10, 12, 14, 16, Describe the sequence you see. What about the multiples of three? Four? Five?	2. OLYMPICS The summer Olympics occur every four years. If the last summer Olympics happened in 2008, when are the next three times that it will occur? Describe the sequence the Olympic years form.
<b>3. BABY-SITTING</b> Tonya charges \$3.50 per hour to baby-sit. The sequence \$3.50, \$7.00, \$10.50, \$14.00, represents how much she charges for each subsequent hour. For example, \$10.50 is the third term that represents how much she charges for 3 hours. What are the next three terms in the sequence? How much does she charge for 7 hours of baby-sitting?	4. JOGGING Luther starts jogging 8 minutes on the first day and then increases his time by 4 minutes each day. How many minutes will he jog the fifth day?
5. BACTERIA Three bacteria are in a dish. Each hour the number of bacteria increases by four. If at the end of the first hour there are 12 bacteria, how many bacteria are there at the end of the next three hours?	<b>6. ENROLLMENT</b> The enrollment at Grove Middle School is expected to increase by 40 students each year for the next 5 years. If their current enrollment is 600 students, find their enrollment after each of the next 5 years.
7. SALARY Mrs. Malone's current salary is \$15,000. She expects it to increase \$1,000 per year. Write the first 6 terms of a sequence that represents her salary. The first term should be her current salary. What does the sixth term represent?	8. FIBONACCI The Fibonacci sequence is named after Leonardo Fibonacci who first explored it. Look at the Fibonacci sequence below and describe its pattern. 1, 1, 2, 3, 5, 8, 13, 21, 34,

## **Lesson 3 Homework Practice**

## **Properties of Operations**

Name the property shown by each statement.

<b>1.</b> $1 \cdot (a + 3) = a + 3$	<b>2.</b> $2p + (3q + 2) = (2p + 3q) + 2$
<b>3.</b> $(ab)c = c(ab)$	<b>4.</b> $2t \cdot 0 = 0$
<b>5.</b> $m(nr) = (mn)r$	<b>6.</b> $0 + 2s = 2s$

# State whether the following conjectures are *true* or *false*. If *false*, provide a counterexample.

7. The product of an odd number and an even number is always odd.

8. The sum of two whole numbers is always larger than either whole number.

#### Simplify each expression. Justify each step.

**9.** 2d(3)

**10.** 2y + (4 + 5y)

- **11. FAXES** Marcellus sent four faxes to Gem. The first fax took 14 seconds to send, the second fax 19 seconds, the third 16 seconds, and the fourth 11 seconds. Use mental math to find out how many seconds it took to fax all four documents to Gem. Explain your reasoning.
- 12. SNOW The first four snowfalls of the year in Shawnee's hometown measured 1.6 inches, 2.2 inches, 1.8 inches, and 1.4 inches. Use mental math to find the total amount of snow that fell. Explain your reasoning.

# **Lesson 3 Problem-Solving Practice**

## **Properties of Operations**

1. <b>PROPERTY</b> Alana's house sits on a rectangular lot with dimensions 62.4 feet by 108.6 feet. Use mental math to find the perimeter.	2. SHOPPING Sera and made four spent \$2.85, \$5 \$4.15. Use men determine how spent at the ma	purch .11, \$' tal m much	ases. 7.89, ath t	She and o		
<b>3. VIDEO GAME</b> Porsche bought a new	4. FLOWERS Betha				-	
video game. The first time she played, it took her 24 minutes to	of roses in a va day she recorde					L
reach Level 2, the second time it	had evaporated				uer	
took 18 minutes, the third time it	before refilling					
took 16 minutes, and the fourth time it took 12 minutes. Use mental	shown in the ta course of five d					
math to determine how many	had evaporated					
minutes she spent at Level 1 while playing these four games.	to find your answer.					
playing these four games.	Day	1	2	3	4	5
	<b>Evaporation (in.)</b>	0.8	0.2	1.1	0.9	1
<b>5. RECORDS</b> Olympia listened to some old records. The first song lasted 2 minutes and 12 seconds, the second lasted 2 minutes and 16 seconds, the third 2 minutes and 18 seconds, and the fourth 3 minutes and 4 seconds. Use mental math to determine the total playing time for all four records.	6. DISTANCE Anza directions to he Angela was to l 2.2 miles, then then south aga mental math to school is from A Explain your re	r hou nead s west : in for deter	se fro south for 3. 5.8 n rmine hous	om sc for 5 mil niles. e how	es, Use	
7. GROCERIES Tayshawn saw the following s butcher shop. If he buys one of each item will he spend? Use mental math to help answer. Explain your reasoning.	, how much find your Bi M	SA past - read - ilk - \$ gurt -	\$1.50 2.81	3		

## **Lesson 4 Homework Practice**

## The Distributive Property

Use the Distributive Property to evaluate each expression.

<b>1.</b> $(16 - 6)2$	<b>2.</b> $4(12 + 3)$
<b>3.</b> $-3(-7+2)$	<b>4.</b> $(8+3)(-1)$

5. 5(7+3)6. -2(8-5)

### Use the Distributive Property to rewrite each expression.

- 8. 4(h-5g)**7.** (2+g)8
- **9.** -7(5-n)**10.** 8(2m + 1)
- 12. -3(2b 2a)11. 6x(y-z)
- 13. DINING OUT The table shows the different prices at a diner.
  - a. Write two equivalent expressions for the total cost if two customers order each of the items.

Item	Cost (\$)
Sandwich	\$5
Drink	\$2
Dessert	\$3

- **b.** What is the total cost for both customers?
- 14. SUNDAES Carmine bought 5 ice cream sundaes for his friends. If each sundae costs \$4.95, how much did he spend? Justify your answer by using the Distributive Property.

# The Distributive Property

friends attend	Marika and her three led the school play. 5.75 each, and Marika	<b>2. LUNCH</b> Althea buys a carton of milk each day at school. The milk costs \$0.90. How much does she spend on			
paid for every of the tickets.	rone. Find the total cost Justify your answer by tributive Property.	50.90. How much does she spend on milk during a typical 5-day week? Justify your answer by using the Distributive Property.			
<b>3. BOOKSTORE</b> The sign below indicates the cost for several items at Ting's middle school bookstore. If Ting wants to buy two of each item, how much will it cost? Justify your answer by using the Distributive Property.		<ul> <li>4. HOCKEY The table shows the price of a ticket and food items at a hockey game.</li> <li>a. Suppose Coleman and two of his friends go to the game. Write an expression that could be used to find the total cost for them to go to the game and buy one of each item.</li> </ul>			
Item	Price (\$)	<b>b.</b> What is the total cost for all three people?			
Pencil	1.00				
Pen	2.50	ItemCost (\$)Ticket7.00			
Notebook	3.00	Hot dog 3.50			
		Fries         2.25			
		Candy bar 1.50			
<b>5. PICTURES</b> Belinda wants to buy 5 pictures to hang in her family room. If each picture costs \$30.90, how much will it cost her to buy all five? Justify your answer by using the Distributive Property.		<b>6.</b> FLASH DRIVES Mr. Kaplan is ordering 30 flash drives for the students in his class. If each one costs \$11.95, how much will he pay? Justify your answer by using the Distributive Property.			
<b>7. FORMULA</b> Mr. and Mrs. Newby are buying baby formula. Each case of formula costs \$59.89. If they want to purchase four cases, how much will they pay? Justify your answer by using the Distributive Property.		8. TIRES Mao needs four new tires for his car. Each tire costs \$88.70. How much will it cost him to buy the tires? Justify your answer by using the Distributive Property.			

## **Homework Practice** *Problem-Solving Investigation: Make a Table*

### Use the make a table strategy to solve Exercises 1-4.

- **1. READING** Shayna is reading a new novel. The last three nights she has read 25, 31, and 37 pages. If she continues reading in this pattern, how many pages of the book can she expect to have read after the sixth night?
- **2. TEMPERATURE** The table shows the daily high temperature for a city for the past four days. If the pattern continues, what would you expect the high temperature to be for the next two days?

Day	Temperature (°F)
Sun.	72
Mon.	73
Tues.	75
Wed.	78

- 3. NUMBERS What are the next three numbers in the pattern below? 138, 113, 88, \_\_\_\_, \_\_\_\_, \_\_\_\_
- **4. TYPING** Parker is taking a typing class. His scores on his timed typing tests are 18, 20, and 24 words per minute. Parker has two more timed tests to take in the course. If the pattern continues, how many words per minute can Parker expect to be able to type at the end of the course?

### Use any strategy to solve Exercises 5-8.

- **5. DANCE** The cheerleaders are practicing a dance routine in which all 36 of them need to be in a triangular formation. There will be two more cheerleaders in each row than the previous row. How many rows will be in the formation?
- 6. GEOMETRY Draw the next two figures in the pattern shown below.



**7. PRECIPITATION** The table shows the average monthly precipitation for Seattle, Washington. About how much precipitation can Seattle expect to receive during March through August? For the whole year?

Average Monthly Precipitation for Seattle, Washington (in.)						
Jan.	5.1	May	1.7	Sept.	1.6	
Feb.	3.7	June	1.4	Oct.	3.0	
Mar.	3.3	July	0.7	Nov.	5.1	
Apr.	2.2	Aug.	0.9	Dec.	5.4	

**8.** CAKE Tiffany is cutting a rectangular cake for a party. She needs 30 equal-sized pieces to serve all the guests. How many cuts will Tiffany need to make in the cake?

# **Problem-Solving Practice** *Problem-Solving Investigation:* Make a Table

1. WAGES The table shows the amount of annual pay raise Miss Jones received the last three years. If the pattern in her pay continues, how much can she expect her pay increase to be five years from now?		2. BABY SITTI Sahara ha hours each continues, she have b	as baby h week. how m	sat 4, 5 If the <sub>1</sub> any tot	6, 7, 8, a pattern al hour	ind 10	
Year	Annual Raise (\$)						
Two Years Ago	500						
Last Year	1,000						
Current year	1,500						
3. GEOMETRY Draw in the pattern she		o figures	<ul> <li>4. EXERCISE A client's program. I shows the for the first program. I how much to lose afta 12 weeks?</li> <li>Week</li> <li>Weight (lb)</li> </ul>	ogress of client's st four If the p total v er follov	each we weight weeks c attern c veight c	ek. The t each v of the continue an he e	e table veek es, expect
<b>5. CLUBS</b> Attendance at the last three foreign language club meetings has been 24, 20, and 16 students. If attendance continues to change in this pattern, how many students can be expected to attend the next meeting?		<b>6. STUDYING</b> tomorrow, 2 hours an 10 minute amount of his last ex minutes d history ex	Zachar nd 40 m s more time h cam. Ho id Zach	y has s inutes. than tw e spent w man ary stu	tudied : This is vice the studyin y more dy for h	e ng for nis	

## **Lesson 5 Homework Practice**

## Simplify Algebraic Expressions

Identify the terms, like terms, coefficients, and constants in each expression.

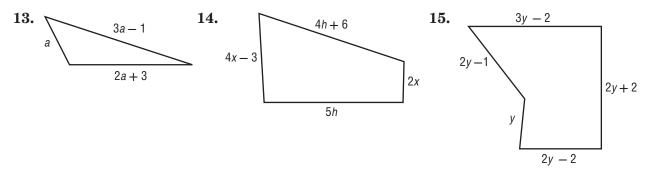
**2.** 8 + 6t - 3t + t1. 4b + 7b + 53. -5x + 4 - x - 1

**4.** 
$$2z - z + 6$$
 **5.**  $4 + h - 8 - h$  **6.**  $y - y - 2 + 2$ 

Write each expression in simplest form.

 $.. \ n + on$   $.. \ 10k - k$   $.. \ 3b + 8 + 2b$   $.. \ 10k - \frac{3}{4}x - \frac{1}{3} + \frac{7}{8}x - \frac{1}{2}$   $.. \ 11. \ 5c - 3d - 12c + d$   $.. \ 12. \ -y + 9z - 16y - 25z$ 

### **MEASUREMENT** Write an expression in simplest form for the perimeter of each figure.



### **16.** SHOPPING Maggie bought c CDs for \$12 each, b books for \$7 each, and a purse costing \$24.

a. Write an expression to show the total amount of money Maggie spent.

**b.** If Maggie bought 4 CDs and 3 books, how much money did she spend?

# **Lesson 5 Problem-Solving Practice**

# Simplify Algebraic Expressions

<ol> <li>GAMES At the Beltway Outlet store, you buy <i>x</i> computer games for \$13 each and a magazine for \$4. Write an expression in simplest form that represents the total amount of money you spend.</li> </ol>	2. TENNIS Two weeks ago, Star bought 3 cans of tennis balls. Last week, she bought 4 cans of tennis balls. This week, she bought 2 cans of tennis balls. The tennis balls cost <i>d</i> dollars per can. Write an expression in simplest form that represents the total amount that Star spent.
3. AMUSEMENT PARKS Sari and her friends played miniature golf. There were p people in the group. Each person paid \$5 for a round of golf and together they spent \$9 on snacks. Write an expression in simplest form that represents the total amount that Sari and her friends spent.	4. BICYCLING The bicycle path at the park is a loop that covers a distance of <i>m</i> miles. Dot biked 2 loops each on Monday and Wednesday and 3 loops on Friday. On Sunday, Dot biked 10 miles. Write an expression in simplest form that represents the total distance that Dot biked this week.
5. GEOMETRY Write an expression in simplest form for the perimeter of the triangle below. 2x - 2x + 3 $4x - 2$	6. SIBLINGS Mala is <i>y</i> years old. Her sister is 4 years older than Mala. Write an expression in simplest form that represents the sum of the ages of the sisters.

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## **Lesson 6 Homework Practice**

### Add Linear Expressions

### Add. Use models if needed.

- 1. (9x + 7) + (x + 3)**2.** (-4x+6) + (x-5)**3.** (-3x + 15) + (-3x + 2)4. (-2x + 10) + (-8x - 1)**5.** (-2x + 4) + (x - 11)**6.** (8x + 9) + (-6x - 1)7. (-6x + 3) + (5x - 4)8. (2x - 4) + (-x + 9)**9.** (-8x + 2) + (-5x + 7)**10.** (-4x - 2) + (13x + 1)**11.** (-7x - 14) + (x - 6)**12.** (12x + 3) + (-7x + 5)**13.** (4x - 1) + (-5x + 17)14. (-9x + 2) + (-8x - 2)**15.** (1.3x + 2.4) + (-6.1x - 3.2)**16.** (0.5x - 0.6) + (0.75x - 0.1)
- 17. GEOMETRY A rectangle has side lengths of (3x + 6) inches and (2x 4) inches. Write an expression to represent the perimeter of the rectangle. Then find the value of x if the perimeter is 94 inches.
- **18.** CRUISE SHIPS The table shows the number of cruise ships in a harbor on various days.

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Number	x-4	x + 9	2x	3x - 7	4

- a. Write an expression for the total number of cruise ships in the harbor on Monday and Tuesday.
- **b.** Write an expression for the total number of cruise ships in the harbor on all 5 days.

# Add Linear Expressions

<b>1. SWIMMING</b> The table gives the number of laps Pragitha swam each week. Write an expression for the total number of laps she swam all four weeks.		each the	<ul> <li>2. GEOMETRY Write an expression for the perimeter of this pentagon. If the perimeter is 157 units, find <i>x</i>.</li> <li>(4x - 1)</li> </ul>				
Week	1	2	3	4	(4x-1) (3x+2)		
Laps	x + 2	3 <i>x</i>	2x + 1	4x - 6	(3x+2) $(3x+2)$		
<b>3. BEDROOM</b> Write an expression for the perimeter of the bedroom shown below. $(x+4)$ $(2x-3)$			-		<b>4. HOCKEY</b> The table shows the number of goals scored during each game. Write an expression for the total number of goals scored in these 3 games. <b>Game</b> 123 <b>Game</b> 123 <b>Goals</b> $2x$ $x+2$ $3x-1$		
<b>5.</b> FLIGHT An airline charges $\$(22x + 20)$ for a ticket, $\$(x + 1)$ to check a bag, $\$2x$ for food, and $\$(15x - 16)$ to upgrade to first class. Write an expression to represent the total cost of flying first class, checking a bag, and buying food on the plane.			check a c – 16) to Write an t the tot ting a ba	bag, o al cost of	<b>6.</b> FOOD Loy paid $\$(4x + 7)$ for a beef roast and $\$(2x - 5)$ for five pounds of potatoes. Write an expression for the total amount he spent on food.		

# **Lesson 7 Homework Practice**

## Subtract Linear Expressions

### Subtract. Use models if needed.

1. $(9x + 7) - (x + 3)$	<b>2.</b> $(3x - 4) - (x - 5)$
<b>3.</b> $(-3x + 15) - (-3x + 2)$	<b>4.</b> $(-2x + 10) - (-8x - 1)$
<b>5.</b> $(-2x + 4) - (x - 11)$	<b>6.</b> $(8x + 9) - (6x - 1)$
<b>7.</b> $(x + 3) - (5x - 4)$	<b>8.</b> $(2x - 4) - (-x + 9)$
<b>9.</b> $(-8x + 2) - (-5x + 7)$	<b>10.</b> $(-4x - 2) - (13x + 1)$
<b>11.</b> $(-7x - 14) - (x - 6)$	<b>12.</b> $(12x + 3) - (-7x + 5)$
<b>13.</b> $(3x - 1) - (-5x + 17)$	<b>14.</b> $(-9x + 2) - (-8x - 2)$
<b>15.</b> $(1.3x + 2.4) - (6.1x - 3.2)$	<b>16.</b> $(-0.5x - 0.4) - (0.75x - 0.6)$

- **17. FOOTBALL** The Dolphins scored 2x 7 points, while the Jaguars scored -5x 3 points. How many more points did the Dolphins score than the Jaguars?
- 18. LUNCH The table shows the cost of a sandwich and a drink at a local cafeteria. How much more does a sandwich cost than a drink?

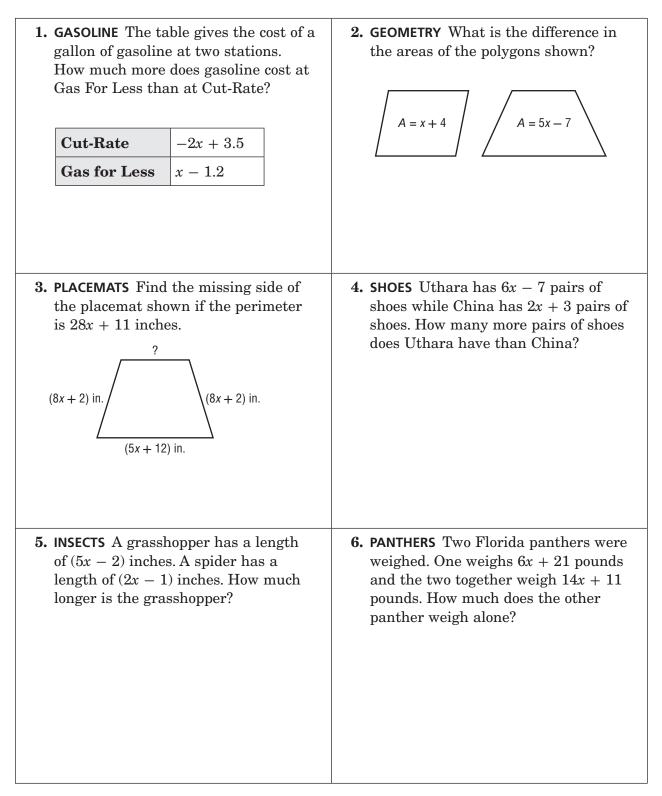
Item	Sandwich	Drink
Cost (\$)	2x + 1.50	x + 0.49

19. COLLEGE COSTS The table shows some college costs. How much more is tuition than the cost of fees and room and board?

Item	Tuition	Fees	Room and Board
Cost (\$)	8x + 75	x + 50	x + 3

# **Lesson 7 Problem-Solving Practice**

# Subtract Linear Expressions



DATE

# **Lesson 8 Homework Practice**

## Factor Linear Expressions

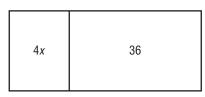
### Find the GCF of each pair of monomials.

<b>1.</b> 20, 45 <i>x</i>	<b>2.</b> 15 <i>r</i> , 25	<b>3.</b> 8 <i>xy</i> , 14 <i>x</i>
<b>4.</b> 30 <i>w</i> , 70 <i>w</i>	<b>5.</b> 4st, 12s	<b>6.</b> 11gh, 33g
<b>7.</b> 16mn, 24m	<b>8.</b> 25 <i>f</i> , 60 <i>g</i>	<b>9.</b> 33c,55cd
<b>10.</b> 50 <i>j</i> , 75 <i>jk</i>	<b>11.</b> 27cd, 72cde	<b>12.</b> 48 <i>t</i> , 60 <i>st</i>

# Factor each expression. If the expression cannot be factored, write *cannot be factored*.

<b>13.</b> $4x + 12$	<b>14</b> . 8 <i>r</i> – 14
<b>15.</b> $5x + 35$	<b>16.</b> $7 + 14x$
<b>17.</b> $32x - 15$	<b>18.</b> $24 + 32x$
<b>19.</b> $6x - 9$	<b>20.</b> $48 + 24x$
<b>21.</b> $72 - 18x$	<b>22.</b> $25x + 14$
<b>23.</b> $100x + 150$	<b>24.</b> 130 <i>x</i> - 13

**25. GEOMETRY** The rectangle shown below has a total area of (4x + 36) square feet. Factor 4x + 36.



**26. FUNDRAISING** The Art Club receives \$10 plus \$2 for every sculpture they sell for a fundraiser. The expression 2x + 10 represents the amount the Art Club receives if they sell *x* sculptures. Factor 2x + 10.

# **Lesson 8 Problem-Solving Practice**

# Factor Linear Expressions

1. MEASUREMENT A sidewalk has an area that can be represented by the expression $(8x + 24)$ feet. Factor the expression $8x + 24$ .	2. RENTAL The cost of renting a speedboat can be represented by the expression $50x + 250$ , where x is the number of hours it is rented. Factor the expression $50x + 250$ .
<ul> <li><b>3. GEOMETRY</b> The rectangle shown below has an area of (28x + 49) inches. Factor the expression 28x + 49.</li> </ul>	<ul> <li>4. CONCERT Four friends went to a concert and paid \$12 total for parking and \$x per ticket. The expression \$4x + \$12 represents the total cost paid of all four friends. Factor 4x + 12.</li> </ul>
<ul> <li><b>5.</b> FINANCIAL LITERACY Marisa has \$40 in her savings account and plans to save \$x each month for 5 months. The expression \$5x + \$40 represents the total amount in the account after 5 months. Factor the expression 5x + 40.</li> </ul>	<ul> <li>6. FRAMING A square picture frame has a perimeter of (20x + 32) inches. What is the length of one side of the picture frame?</li> </ul>