

To Whom It May Concern:

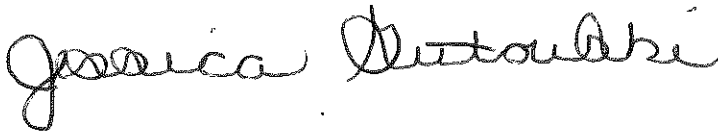
Welcome to my 8<sup>th</sup> Grade Mathematics class. My name is Ms. Gutowski and I will be your teacher for the 2017-2018 school year.

This assignment will be counted as a test grade for 1<sup>st</sup> marking period. Please have your assignment completed and turned in by Friday, September 8<sup>th</sup>.

If you have any questions over the summer break, please do not hesitate to email me at [jgutowski@carlstadtps.org](mailto:jgutowski@carlstadtps.org). I do check my email regularly so I will get back to you as soon as possible. Also, please reference my Eboard or the Main Office if you need an additional copy of the assignment.

I look forward to a productive school year together and hope that it will be filled with both fun and learning.

Sincerely,

A handwritten signature in cursive script that reads "Jessica Gutowski".

Ms. Jessica Gutowski  
Mathematics Resource Room Teacher

**Remember: All work MUST be shown  
to receive credit for the assignment**



**REVIEW:** Adding and Subtracting Fractions with Unlike Denominators

Name \_\_\_\_\_

**Key Concept and Vocabulary**

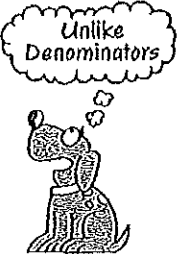
Find products.

$$\frac{2}{3} \times \frac{1}{4} = \frac{2 \cdot 1}{3 \cdot 4} = \frac{2}{12}$$

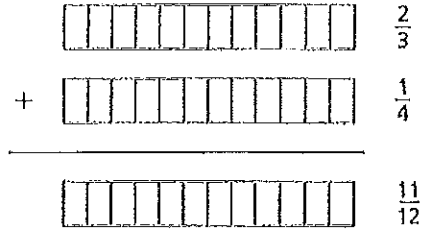
$$\frac{2}{3} \times \frac{1}{4} = \frac{2 \cdot 4 + 3 \cdot 1}{3 \cdot 4} = \frac{11}{12}$$

$$\frac{2}{3} \times \frac{1}{4} = \frac{2 \cdot 4 - 3 \cdot 1}{3 \cdot 4} = \frac{5}{12}$$

Unlike Denominators



**Visual Model**



**Skill Examples**

- $\frac{1}{5} + \frac{2}{3} = \frac{1 \cdot 3 + 2 \cdot 5}{5 \cdot 3} = \frac{13}{15}$
- $\frac{1}{2} + \frac{1}{4} = \frac{1 \cdot 4 + 2 \cdot 1}{2 \cdot 4} = \frac{6}{8} = \frac{3}{4}$
- $\frac{1}{3} - \frac{1}{4} = \frac{1 \cdot 4 - 3 \cdot 1}{3 \cdot 4} = \frac{1}{12}$
- $\frac{3}{7} - \frac{2}{5} = \frac{3 \cdot 5 - 7 \cdot 2}{7 \cdot 5} = \frac{1}{35}$

**Application Example**

5. You ride your bike  $\frac{3}{8}$  mile to the store. Then you ride  $\frac{1}{6}$  mile to school. How far do you ride altogether?

$$\frac{3}{8} + \frac{1}{6} = \frac{3 \cdot 6 + 8 \cdot 1}{8 \cdot 6} = \frac{26}{48} = \frac{13}{24}$$

You ride  $\frac{13}{24}$  mile.

**PRACTICE MAKES PURR-FECT™**

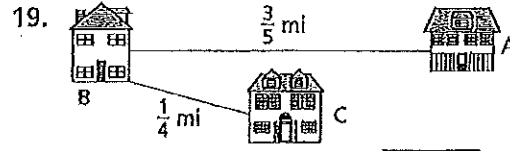
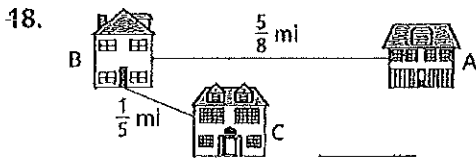


Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

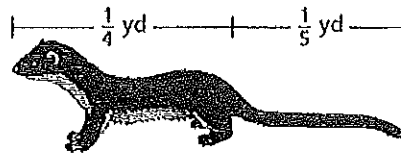
Find the sum or difference. Write your answer in simplified form.

- $\frac{1}{3} + \frac{1}{8} =$  \_\_\_\_\_
- $\frac{2}{3} + \frac{1}{5} =$  \_\_\_\_\_
- $\frac{3}{10} + \frac{1}{4} =$  \_\_\_\_\_
- $\frac{1}{2} + \frac{2}{5} =$  \_\_\_\_\_
- $\frac{3}{7} + \frac{1}{3} =$  \_\_\_\_\_
- $\frac{1}{8} + \frac{2}{5} =$  \_\_\_\_\_
- $\frac{5}{8} - \frac{1}{3} =$  \_\_\_\_\_
- $\frac{5}{6} - \frac{3}{5} =$  \_\_\_\_\_
- $\frac{5}{9} - \frac{2}{5} =$  \_\_\_\_\_
- $\frac{7}{10} - \frac{1}{4} =$  \_\_\_\_\_
- $\frac{3}{5} - \frac{1}{6} =$  \_\_\_\_\_
- $\frac{1}{5} - \frac{1}{6} =$  \_\_\_\_\_

Find the total distance from House A to House B and then to House C.



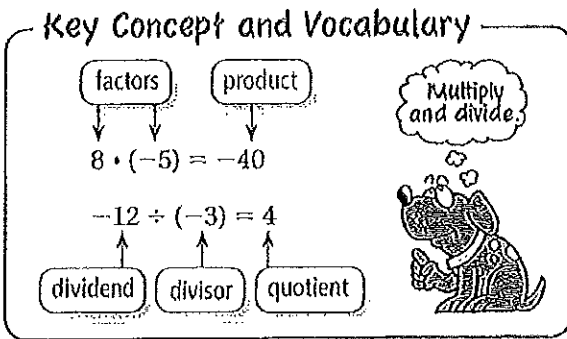
20. **WEASEL LENGTH** Find the total length of the weasel. \_\_\_\_\_



21. **IMPROVING YOUR SPEED** You swam at a rate of  $\frac{3}{8}$  mile per hour in March. You swam at a rate of  $\frac{3}{7}$  mile per hour in April. How much faster did you swim in April? \_\_\_\_\_

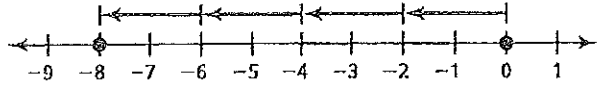
# REVIEW: Multiplying and Dividing Integers

Name \_\_\_\_\_



## Visual Model

$$4 \cdot (-2) = (-2) + (-2) + (-2) + (-2)$$



## Skill Examples

- $-3 \cdot (-4) = 12$  ← same sign, product and quotient positive
- $-36 \div (-6) = 6$  ← same sign, product and quotient positive
- $-7 \cdot 0 = 0$
- $-10 \div 5 = -2$  ← different signs, product and quotient negative
- $-5 \cdot 6 = -30$  ← different signs, product and quotient negative

## Application Example

- Each of your six friends owes you \$5. Use integer multiplication to represent the total amount your friends owe you.

$$6 \cdot (-5) = -30$$

∴ The total amount owed is \$30.

## PRACTICE MAKES PURR-FECT™



Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

Find the product or quotient.

- $-3 \times (-5) = \underline{\quad}$
- $7(-3) = \underline{\quad}$
- $0 \cdot (-5) = \underline{\quad}$
- $(-5)(-7) = \underline{\quad}$
- $-8 \cdot 2 = \underline{\quad}$
- $(-5)^2 = \underline{\quad}$
- $(-3)^3 = \underline{\quad}$
- $4(-2)(-3) = \underline{\quad}$
- $-16 \div 4 = \underline{\quad}$
- $-20 \div (-5) = \underline{\quad}$
- $\frac{-9}{3} = \underline{\quad}$
- $\frac{-20}{-10} = \underline{\quad}$

Complete the multiplication or division equation.

- $-15 \div \underline{\quad} = -3$
- $45 \div \underline{\quad} = -5$
- $\underline{\quad} \div (-20) = 5$
- $8 \cdot \underline{\quad} = -64$
- $\underline{\quad} \cdot (-9) = 27$
- $-12 \cdot \underline{\quad} = -96$

- TOTAL OWED** Each of your eight friends owes you \$10. Use integer multiplication to represent the total amount your friends owe you. \_\_\_\_\_

- TEMPERATURE** The low temperatures for a week in Edmonton, Alberta are  $-15^\circ\text{C}$ ,  $-12^\circ\text{C}$ ,  $-10^\circ\text{C}$ ,  $-12^\circ\text{C}$ ,  $-18^\circ\text{C}$ ,  $-20^\circ\text{C}$ , and  $-25^\circ\text{C}$ . What is the mean low temperature for the week? Show your work.  
\_\_\_\_\_

REVIEW: Multiplying Mixed Numbers Name \_\_\_\_\_

Key Concept and Vocabulary

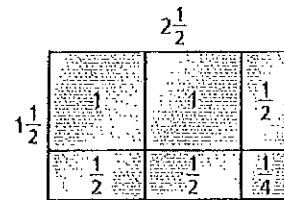
$$2\frac{1}{2} \times 1\frac{1}{2} = \frac{5}{2} \times \frac{3}{2} = \frac{15}{4}$$

Rewrite as improper fractions.

Multiply.



Visual Model



$$\text{Area} = 2\frac{1}{2} \times 1\frac{1}{2} = \frac{15}{4} = 3\frac{3}{4}$$

Skill Examples

1.  $3\frac{1}{2} \times 2\frac{1}{3} = \frac{7}{2} \times \frac{7}{3} = \frac{49}{6} = 8\frac{1}{6}$

2.  $1\frac{3}{4} \cdot 4\frac{1}{2} = \frac{7}{4} \cdot \frac{9}{2} = \frac{63}{8} = 7\frac{7}{8}$

3.  $2\frac{2}{5} \times 1\frac{2}{3} = \frac{12}{5} \times \frac{5}{3} = \frac{60}{15} = 4$

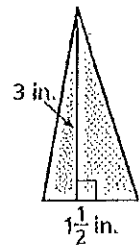
4.  $\left(1\frac{1}{2}\right)\left(1\frac{1}{2}\right) = \left(\frac{3}{2}\right)\left(\frac{3}{2}\right) = \frac{9}{4} = 2\frac{1}{4}$

Application Example

5. Find the area of the triangle.

$$\text{Area} = \frac{1}{2} \cdot 1\frac{1}{2} \cdot 3$$

$$= \frac{1}{2} \cdot \frac{3}{2} \cdot \frac{3}{1} = \frac{9}{4} = 2\frac{1}{4}$$



∴ The area is  $2\frac{1}{4}$  square inches.

PRACTICE MAKES PURR-FECT™



Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

Find the product. Write your answer as a whole number or mixed number in simplified form.

6.  $2\frac{1}{3} \times 1\frac{1}{3} =$  \_\_\_\_\_

7.  $4\frac{2}{3} \times 1\frac{1}{2} =$  \_\_\_\_\_

8.  $1\frac{1}{2} \times 3 =$  \_\_\_\_\_

9.  $5\frac{1}{6} \times \frac{1}{3} =$  \_\_\_\_\_

10.  $\frac{3}{4} \cdot 3\frac{1}{2} =$  \_\_\_\_\_

11.  $5 \cdot 4\frac{1}{2} =$  \_\_\_\_\_

12.  $2\frac{1}{7} \cdot \frac{7}{15} =$  \_\_\_\_\_

13.  $1\frac{3}{5} \cdot \frac{3}{8} =$  \_\_\_\_\_

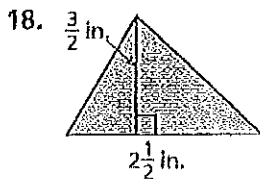
14.  $\left(1\frac{1}{3}\right)^2 =$  \_\_\_\_\_

15.  $\left(1\frac{1}{4}\right)^3 =$  \_\_\_\_\_

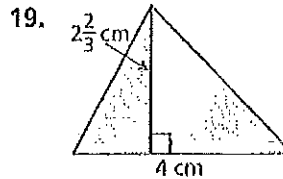
16.  $\left(2\frac{1}{2}\right)\left(3\frac{1}{3}\right) =$  \_\_\_\_\_

17.  $\left(3\frac{1}{2}\right)\left(\frac{1}{2}\right)^2 =$  \_\_\_\_\_

Find the area of the triangle.



Area = \_\_\_\_\_



Area = \_\_\_\_\_

20. **RECIPE** Rewrite the recipe so that each item is one-third of the full recipe.

- $\frac{1}{2}$  cups flour
- 2 tsp baking powder
- 4 Tbsp butter
- $\frac{1}{2}$  tsp salt
- $\frac{3}{4}$  cup milk

\_\_\_\_\_ cups flour

\_\_\_\_\_ tsp salt

\_\_\_\_\_ tsp baking powder

\_\_\_\_\_ cup milk

\_\_\_\_\_ Tbsp butter

# Operations with Rational Numbers

To add, subtract, multiply, or divide rational numbers, use the same rules for signs as you used for integers.

Example 1 Find (a)  $-\frac{5}{6} + \frac{2}{3}$  and (b)  $7.3 - (-4.8)$ .

a. Write the fractions with the same denominator, then add.

$$-\frac{5}{6} + \frac{2}{3} = -\frac{5}{6} + \frac{4}{6} = \frac{-5 + 4}{6} = \frac{-1}{6} = -\frac{1}{6}$$

b. To subtract a rational number, add its opposite.

$$7.3 - (-4.8) = 7.3 + 4.8 = 12.1 \quad \text{The opposite of } -4.8 \text{ is } 4.8.$$

Example 2 Find (a)  $2.25 \cdot 8$ , (b)  $-2.25 \cdot (-8)$ , and (c)  $-2.25 \cdot 8$ .

a.  $2.25 \cdot 8 = 18$

b.  $-2.25 \cdot (-8) = 18$

c.  $-2.25 \cdot 8 = -18$

Example 3 Find  $-\frac{4}{9} \div \frac{3}{4}$ .

To divide by a fraction, multiply by its reciprocal.

$$-\frac{4}{9} \div \frac{3}{4} = -\frac{4}{9} \cdot \frac{4}{3} = \frac{-4 \cdot 4}{9 \cdot 3} = -\frac{16}{27} \quad \text{The reciprocal of } \frac{3}{4} \text{ is } \frac{4}{3}.$$

## Practice

Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

Add, subtract, multiply, or divide.

1.  $-7.5 + 3.8$

2.  $-18.3 + (-6.7)$

3.  $0.6 - 0.85$

4.  $6.13 - (-2.82)$

5.  $-6 \cdot 4.75$

6.  $-3.2 \cdot (-4.8)$

7.  $-1.8 \div (-9)$

8.  $3.6 \div (-1.5)$

9.  $-\frac{1}{6} + \frac{5}{6}$

10.  $-\frac{7}{10} + \left(-\frac{3}{5}\right)$

11.  $\frac{4}{9} - \frac{2}{3}$

12.  $-\frac{5}{6} - \frac{1}{4}$

13.  $-\frac{3}{2} \cdot \left(-\frac{1}{8}\right)$

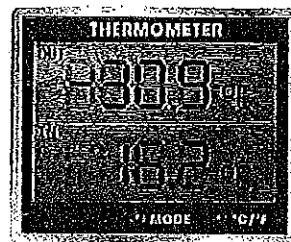
14.  $-\frac{3}{4} \cdot \frac{7}{12}$

15.  $\frac{5}{8} \div \left(-\frac{1}{4}\right)$

16.  $-\frac{4}{7} \div \frac{2}{5}$

17. **TEMPERATURE** The temperature at midnight is shown. The outside temperature decreases  $2.3^\circ\text{C}$  over the next two hours. What is the outside temperature at 2 A.M.?

18. **SNOWFALL** In January, a city's snowfall was  $\frac{5}{8}$  foot below the historical average. In February, the snowfall was  $\frac{3}{4}$  foot above the historical average. Was the city's snowfall in the two-month period above or below the historical average? By how much?



## Evaluating Algebraic Expressions

An **algebraic expression** is an expression that may contain numbers, operations, and one or more symbols. A symbol that represents one or more numbers is called a **variable**. To evaluate an algebraic expression, substitute a number for each variable. Then use the order of operations to find the value of the numerical expression.

**Example 1** Evaluate each expression when  $x = 3$ .

a.  $5x + 7$

$$\begin{aligned} 5x + 7 &= 5(3) + 7 && \text{Substitute 3 for } x. \\ &= 15 + 7 && \text{Multiply.} \\ &= 22 && \text{Add.} \end{aligned}$$

b.  $14 - x^2$

$$\begin{aligned} 14 - x^2 &= 14 - 3^2 && \text{Substitute 3 for } x. \\ &= 14 - 9 && \text{Evaluate power.} \\ &= 5 && \text{Subtract.} \end{aligned}$$

c.  $2x^2 - 8x + 4$

$$\begin{aligned} 2x^2 - 8x + 4 &= 2(3)^2 - 8(3) + 4 && \text{Substitute 3 for } x. \\ &= 2(9) - 8(3) + 4 && \text{Evaluate power.} \\ &= 18 - 24 + 4 && \text{Multiply.} \\ &= -2 && \text{Simplify.} \end{aligned}$$

**Example 2** Evaluate each expression when  $x = -2$  and  $y = 6$ .

a.  $7x - 5y$

$$\begin{aligned} 7x - 5y &= 7(-2) - 5(6) \\ &= -14 - 30 \\ &= -44 \end{aligned}$$

b.  $x^2 - 2xy + y^2$

$$\begin{aligned} x^2 - 2xy + y^2 &= (-2)^2 - 2(-2)(6) + 6^2 \\ &= 4 - 2(-2)(6) + 36 \\ &= 4 - (-24) + 36 \\ &= 64 \end{aligned}$$

### Practice

Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

Evaluate the expression when  $x = 2$  and  $y = -3$ .

- |                   |                    |                       |                       |
|-------------------|--------------------|-----------------------|-----------------------|
| 1. $3x + 10$      | 2. $14 - 2y$       | 3. $5 - y^2$          | 4. $4x^2 + 9$         |
| 5. $y^2 + 8y - 4$ | 6. $-3x^2 - x + 7$ | 7. $0.75x - 4x - 1.5$ | 8. $3(y + 8 - 4y)$    |
| 9. $2x + 3y$      | 10. $6y - 5x$      | 11. $4x^2 + 3y$       | 12. $x^2 - y^2$       |
| 13. $y - x + y^2$ | 14. $x^2y^2 + xy$  | 15. $\frac{x+y}{y-x}$ | 16. $\frac{2x+y}{xy}$ |

Copy and complete the table.

17.

$x$	0	1	2	3	4
$3x - 2$					

18.

$x$	-2	-1	0	1	2
$-4x + 1$					

19. **MONEY** You earn  $8x + 7y$  dollars for working  $x$  hours at a restaurant and  $y$  hours at a bus station. How much do you earn for working 12 hours at the restaurant and 16 hours at the bus station?

# REVIEW: Writing Expressions and Equations

Name \_\_\_\_\_

## Key Concept and Vocabulary

Phrase: Two more than a number

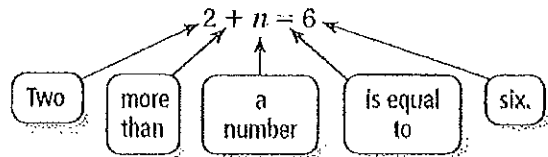
Expression:  $2 + n$

Sentence: Two more than a number is equal to six.

Equation:  $2 + n = 6$



## Visual Model



## Skill Examples

- Five times a number:  $5n$
- Six less than three times a number:  $3n - 6$
- The sum of a number and one:  $n + 1$
- A number divided by three:  $n \div 3$

## Application Example

- Write an equation for the following.  
"The price of \$15 is the wholesale cost plus a markup of fifty percent."

Let  $C$  be the wholesale cost.

50% of  $C$  is  $0.5C$ .

∴ An equation is  $15 = C + 0.5C$ .



## PRACTICE MAKES PURR-FECT™

Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

Write the verbal phrase as a mathematical expression.

- The product of a number and two

\_\_\_\_\_

- 19 less than twice a number

\_\_\_\_\_

- Five times the sum of a number and two

\_\_\_\_\_

- 10 subtracted from a number:

\_\_\_\_\_

- The sum of a number and three, divided by four

\_\_\_\_\_

- Seven less than four times a number

\_\_\_\_\_

Write the sentence as an equation.

- Three times a number equals nine.

\_\_\_\_\_

- Twelve divided by a number is four.

\_\_\_\_\_

- The difference of a number and nine is four.

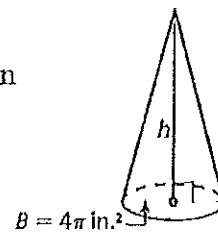
\_\_\_\_\_

- The sum of a number and seven is eighteen.

\_\_\_\_\_

- The volume of a cone is one-third the area of the base times the height. A cone has a volume of  $20\pi$  cubic inches. Write an equation that can be used to solve for the height of the cone.

\_\_\_\_\_





# REVIEW: Percents and Proportions

Name \_\_\_\_\_

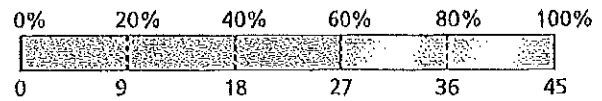
## Key Concept and Vocabulary

To represent "a is p percent of w," use a proportion.

$$\frac{\text{part of the whole}}{\text{whole}} = \frac{a}{w} = \frac{p}{100}$$



## Visual Model



27 is 60% of 45.

## Skill Examples

1.  $\frac{36}{50} = \frac{p}{100}$

$$100 \cdot \frac{36}{50} = 100 \cdot \frac{p}{100}$$

$$72 = p$$

∴ So, 36 is 72% of 50.

2.  $\frac{a}{36} = \frac{20}{100}$

$$36 \cdot \frac{a}{36} = 36 \cdot \frac{20}{100}$$

$$a = 7.2$$

∴ So, 7.2 is 20% of 36.

## Application Example

3. A basketball player makes 45%, or 9 shots, of her attempted shots. How many shots did the basketball player attempt?

$$\frac{9}{w} = \frac{45}{100}$$

$$9 \cdot 100 = w \cdot 45$$

$$900 = 45w$$

$$\frac{900}{45} = \frac{45w}{45}$$

$$20 = w$$

- ∴ The basketball player attempted 20 shots.



## PRACTICE MAKES PURR-FECT™



Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

Write and solve a proportion to answer the question.

4. 68 is what percent of 80?

\_\_\_\_\_

5. What number is 25% of 116?

\_\_\_\_\_

6. 36 is 16% of what number?

\_\_\_\_\_

7. 48 is what percent of 128?

\_\_\_\_\_

8. What number is 64% of 40?

\_\_\_\_\_

9. 77 is 55% of what number?

\_\_\_\_\_

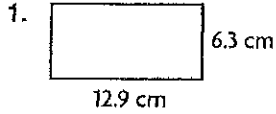
10. **PLAY** Students are auditioning for a play. Of the 60 students auditioning, 12 will get a part in the play. What percent of the students who audition will get a part in the play?

\_\_\_\_\_

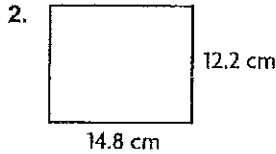
11. **HOMEWORK** You have completed 60% of your English homework. The assignment has 25 questions. How many questions are left? \_\_\_\_\_

**Perimeter**

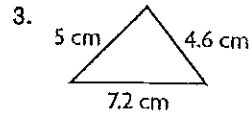
Find the perimeter.



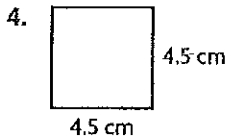
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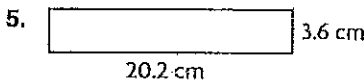
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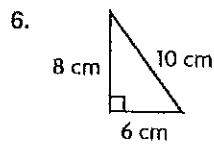
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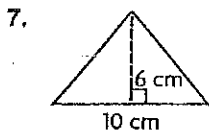
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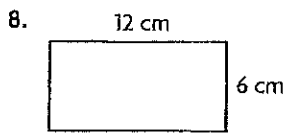
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**Area**

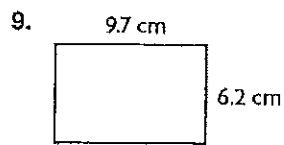
Find the area.



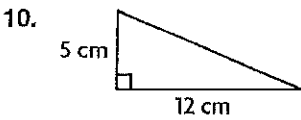
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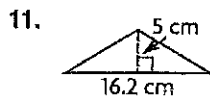
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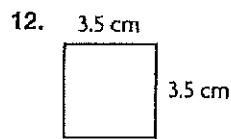
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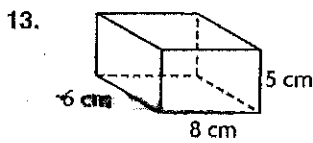
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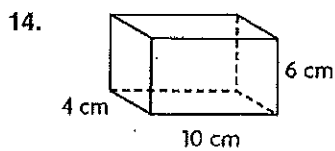
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**Volume**

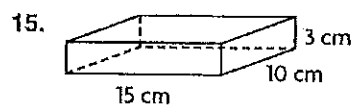
Find the volume.



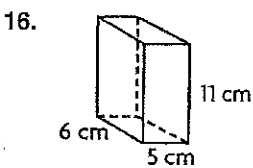
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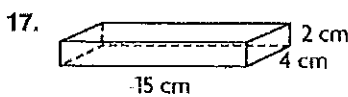
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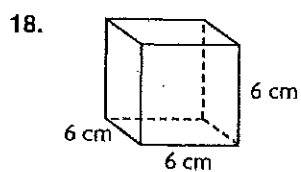
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Name \_\_\_\_\_

### Evaluating Algebraic Expressions

Evaluate the expression.

1.  $2x + y$  for  $x = 6$  and  $y = 4$   
\_\_\_\_\_

2.  $3m - n$  for  $m = 5$  and  $n = 3$   
\_\_\_\_\_

3.  $4d - y$  for  $d = -2$  and  $y = 8$   
\_\_\_\_\_

4.  $n^2 - m$  for  $n = 8$  and  $m = 7$   
\_\_\_\_\_

5.  $y^2 - y$  for  $y = 10$   
\_\_\_\_\_

6.  $y^2 + t$  for  $y = 7$  and  $t = -5$   
\_\_\_\_\_

7.  $6m + n^2$  for  $m = -3$  and  $n = -2$   
\_\_\_\_\_

8.  $d^2 + e^2$  for  $d = 3$  and  $e = 4$   
\_\_\_\_\_

9.  $v^2 - w$  for  $v = 5$  and  $w = 5$   
\_\_\_\_\_

### Adding Integers

Find the sum.

10.  $-5 + 8$  \_\_\_\_\_

11.  $-3 + -9$  \_\_\_\_\_

12.  $7 + -6$  \_\_\_\_\_

13.  $-4 + 3$  \_\_\_\_\_

14.  $-16 + 7$  \_\_\_\_\_

15.  $-8 + -8$  \_\_\_\_\_

16.  $-9 + 13$  \_\_\_\_\_

17.  $-12 + -3$  \_\_\_\_\_

18.  $-13 + 17$  \_\_\_\_\_

19.  $21 + -8$  \_\_\_\_\_

20.  $-7 + 7$  \_\_\_\_\_

21.  $-4 + -7$  \_\_\_\_\_

### Combining Like Terms

Combine like terms.

22.  $8x + 3x$  \_\_\_\_\_

23.  $4y + -6y$  \_\_\_\_\_

24.  $-5x + 3x$  \_\_\_\_\_

25.  $2x^2 + 5x^2$  \_\_\_\_\_

26.  $-4y^2 + 5y^2$  \_\_\_\_\_

27.  $8x^2 + -8x^2$  \_\_\_\_\_

28.  $9x + -12x$  \_\_\_\_\_

29.  $-3y + -5y$  \_\_\_\_\_

30.  $5x + -9x$  \_\_\_\_\_

31.  $-x^2 + -x^2$  \_\_\_\_\_

32.  $-3x^2 + 3x^2$  \_\_\_\_\_

33.  $-8y^2 + -4y^2$  \_\_\_\_\_

### Subtracting Integers

Find the difference.

34.  $16 - (-3)$  \_\_\_\_\_

35.  $24 - (-8)$  \_\_\_\_\_

36.  $-15 - (-6)$  \_\_\_\_\_

37.  $-21 - 7$  \_\_\_\_\_

38.  $-50 - (-4)$  \_\_\_\_\_

39.  $-19 - (-8)$  \_\_\_\_\_

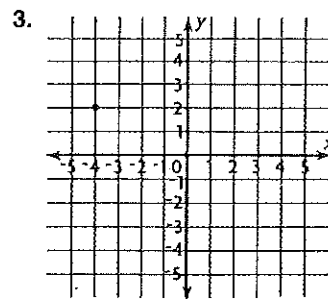
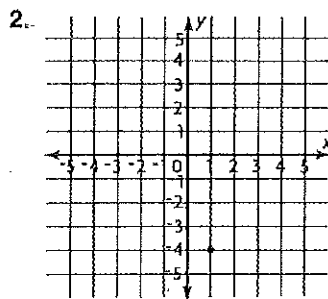
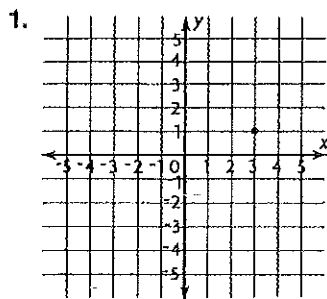
40.  $21 - (-7)$  \_\_\_\_\_

41.  $-10 - (-5)$  \_\_\_\_\_

42.  $-12 - 4$  \_\_\_\_\_

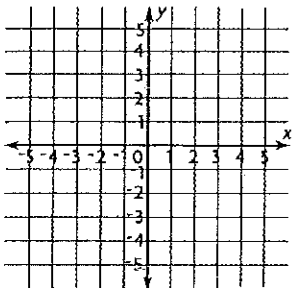
### Locating Points on a Coordinate Grid

Write the ordered pair for each point.

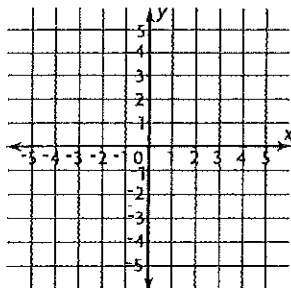


Graph a point for the ordered pair.

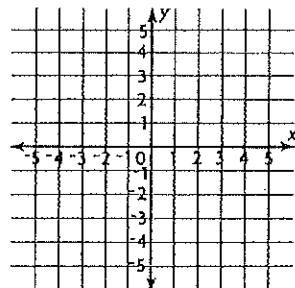
4. (3,4)



5. (-2,0)



6. (5,-3)



### Solving Equations

Solve for  $y$ .

7.  $8y = 24$  \_\_\_\_\_

8.  $y + 8 = -15$  \_\_\_\_\_

9.  $y - 7 = 24$  \_\_\_\_\_

10.  $3y + 2 = 14$  \_\_\_\_\_

11.  $4y - 6 = -22$  \_\_\_\_\_

12.  $5y - 8 = -43$  \_\_\_\_\_

### Solving Inequalities

Solve and graph the inequality.

13.  $y - 8 > 4$  \_\_\_\_\_

14.  $y + 6 < 12$  \_\_\_\_\_

15.  $y + 7 \leq 16$  \_\_\_\_\_

16.  $y - 14 > -12$  \_\_\_\_\_