

# REVIEW: Adding and Subtracting Fractions with Unlike Denominators

Name \_\_\_\_\_

## Key Concept and Vocabulary

Find products.

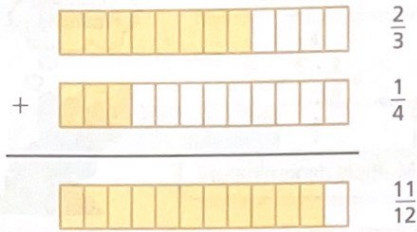
$$\frac{2}{3} \times \frac{1}{4} = \frac{2 \cdot 1}{3 \cdot 4} = \frac{2}{12}$$

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

Unlike Denominators



## Visual Model



## Skill Examples

1.  $\frac{1}{5} + \frac{2}{3} = \frac{1 \cdot 3 + 5 \cdot 2}{5 \cdot 3} = \frac{13}{15}$

2.  $\frac{1}{2} + \frac{1}{4} = \frac{1 \cdot 4 + 2 \cdot 1}{2 \cdot 4} = \frac{6}{8} = \frac{3}{4}$

3.  $\frac{1}{3} - \frac{1}{4} = \frac{1 \cdot 4 - 3 \cdot 1}{3 \cdot 4} = \frac{1}{12}$

4.  $\frac{3}{7} - \frac{2}{5} = \frac{3 \cdot 5 - 7 \cdot 2}{7 \cdot 5} = \frac{1}{35}$

## 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.

6.  $\frac{1}{3} + \frac{1}{8} =$  \_\_\_\_\_

7.  $\frac{2}{3} + \frac{1}{5} =$  \_\_\_\_\_

8.  $\frac{3}{10} + \frac{1}{4} =$  \_\_\_\_\_

9.  $\frac{1}{2} + \frac{2}{5} =$  \_\_\_\_\_

10.  $\frac{3}{7} + \frac{1}{3} =$  \_\_\_\_\_

11.  $\frac{1}{8} + \frac{2}{5} =$  \_\_\_\_\_

12.  $\frac{5}{8} - \frac{1}{3} =$  \_\_\_\_\_

13.  $\frac{5}{6} - \frac{3}{5} =$  \_\_\_\_\_

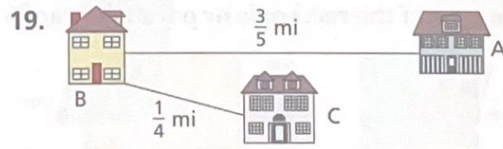
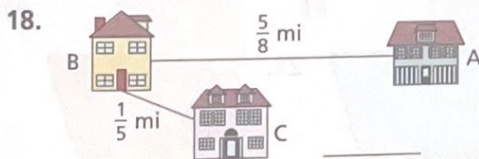
14.  $\frac{5}{9} - \frac{2}{5} =$  \_\_\_\_\_

15.  $\frac{7}{10} - \frac{1}{4} =$  \_\_\_\_\_

16.  $\frac{3}{5} - \frac{1}{6} =$  \_\_\_\_\_

17.  $\frac{1}{5} - \frac{1}{6} =$  \_\_\_\_\_

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 Fractions

Name \_\_\_\_\_

## Key Concept and Vocabulary

Multiply numerators.

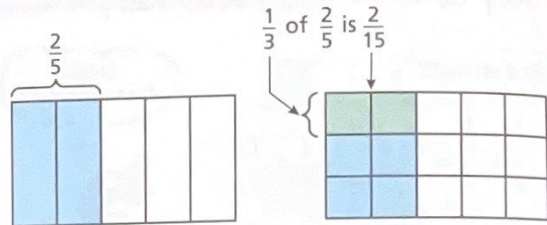
$$\frac{1}{3} \cdot \frac{2}{5} = \frac{1 \cdot 2}{3 \cdot 5} = \frac{2}{15}$$

Multiply denominators.

Multiply Fractions.



## Visual Model



## Skill Examples

- $\frac{2}{3} \cdot \frac{1}{4} = \frac{2 \cdot 1}{3 \cdot 4} = \frac{2}{12} = \frac{1}{6}$
- $\frac{3}{8} \times \frac{2}{9} = \frac{3 \cdot 2}{8 \cdot 9} = \frac{6}{72} = \frac{1}{12}$
- $\left(\frac{2}{5}\right)\left(\frac{1}{4}\right) = \frac{2 \cdot 1}{5 \cdot 4} = \frac{2}{20} = \frac{1}{10}$
- $\frac{1}{7} \cdot \frac{3}{5} = \frac{1 \cdot 3}{7 \cdot 5} = \frac{3}{35}$

## Application Example

5. A recipe calls for three-fourths cup of flour. You want to make one-half of the recipe. How much flour should you use?

$$\frac{1}{2} \cdot \frac{3}{4} = \frac{1 \cdot 3}{2 \cdot 4} = \frac{3}{8}$$

❖ You should use  $\frac{3}{8}$  cup flour.

## PRACTICE MAKES PURR-FECT™

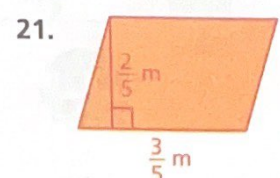
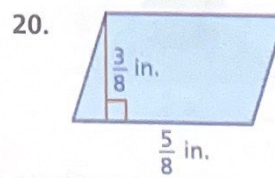
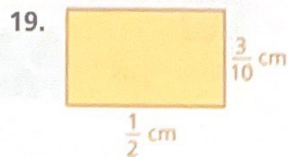
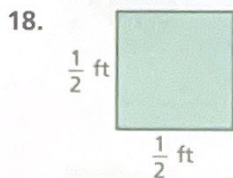


Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

Find the product. Write your answer in simplified form.

- $\frac{1}{3} \cdot \frac{2}{7} =$  \_\_\_\_\_
- $\frac{1}{2} \times \frac{1}{4} =$  \_\_\_\_\_
- $\frac{1}{10} \cdot \frac{3}{10} =$  \_\_\_\_\_
- $\frac{3}{2} \times \frac{2}{5} =$  \_\_\_\_\_
- $\frac{3}{8} \times \frac{1}{2} =$  \_\_\_\_\_
- $\left(\frac{1}{5}\right)\left(\frac{2}{5}\right) =$  \_\_\_\_\_
- $\left(\frac{2}{3}\right)^2 =$  \_\_\_\_\_
- $\frac{3}{2} \cdot \frac{2}{3} =$  \_\_\_\_\_
- $\left(\frac{3}{1}\right)\left(\frac{1}{3}\right) =$  \_\_\_\_\_
- $2 \cdot \frac{1}{4} =$  \_\_\_\_\_
- $3 \times \frac{3}{4} =$  \_\_\_\_\_
- $\frac{1}{3} \cdot \frac{3}{4} \cdot \frac{4}{5} =$  \_\_\_\_\_

Find the area of the rectangle or parallelogram.



22. **OPEN-ENDED** Find three different pairs of fractions that have the same product.

$$\square \cdot \square = \square \quad \square \cdot \square = \square \quad \square \cdot \square = \square$$

## REVIEW: Dividing Fractions

Name \_\_\_\_\_

### Key Concept and Vocabulary

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

Invert and multiply.

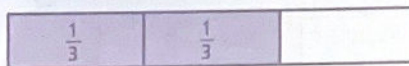
Divide fractions.



### Visual Model

There are 2 "one-thirds" in two-thirds.

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



### Skill Examples

$$1. \frac{2}{5} \div \frac{1}{5} = \frac{2}{5} \cdot \frac{5}{1} = \frac{2 \cdot 5}{5 \cdot 1} = 2$$

$$2. \frac{2}{5} \div 5 = \frac{2}{5} \cdot \frac{1}{5} = \frac{2 \cdot 1}{5 \cdot 5} = \frac{2}{25}$$

$$3. \frac{9}{4} \div \frac{3}{4} = \frac{9}{4} \cdot \frac{4}{3} = \frac{9 \cdot 4}{4 \cdot 3} = 3$$

$$4. 6 \div \frac{1}{2} = \frac{6}{1} \cdot \frac{2}{1} = \frac{6 \cdot 2}{1 \cdot 1} = 12$$

### Application Example

5. You drive 25 miles in one-half hour. What is your average rate?

$$25 \div \frac{1}{2} = \frac{25}{1} \cdot \frac{2}{1} = 50 \text{ mi/h} \quad r = \frac{d}{t}$$

- ❖ Your average rate is 50 miles per hour.

## PRACTICE MAKES PURR-FECT™



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

Find the quotient. Write your answer in simplified form.

$$6. \frac{3}{5} \div \frac{1}{5} = \underline{\hspace{2cm}}$$

$$7. 4 \div \frac{1}{2} = \underline{\hspace{2cm}}$$

$$8. \frac{2}{3} \div \frac{1}{6} = \underline{\hspace{2cm}}$$

$$9. \frac{1}{6} \div \frac{2}{3} = \underline{\hspace{2cm}}$$

$$10. \frac{2}{3} \div 2 = \underline{\hspace{2cm}}$$

$$11. \frac{3}{4} \div 4 = \underline{\hspace{2cm}}$$

$$12. \frac{3}{7} \div \frac{3}{7} = \underline{\hspace{2cm}}$$

$$13. \frac{3}{7} \div \frac{7}{3} = \underline{\hspace{2cm}}$$

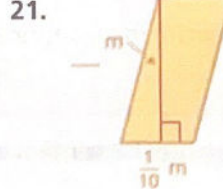
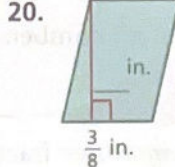
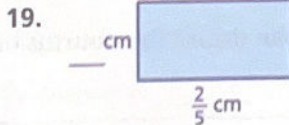
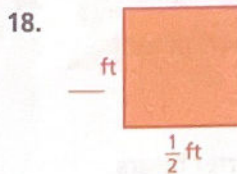
$$14. 5 \div \frac{1}{2} = \underline{\hspace{2cm}}$$

$$15. \frac{9}{4} \div \frac{1}{4} = \underline{\hspace{2cm}}$$

$$16. \frac{1}{4} \div \frac{1}{2} = \underline{\hspace{2cm}}$$

$$17. \frac{3}{11} \div 11 = \underline{\hspace{2cm}}$$

Find the height of the rectangle or parallelogram.



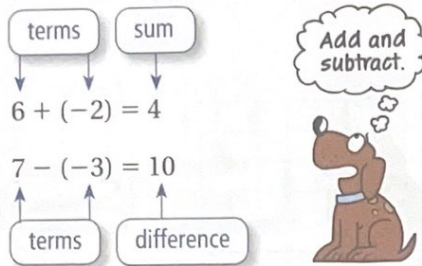
22. **SPEED** You drive 15 miles in one-fourth hour. What is your average speed? \_\_\_\_\_

23. **MAGNETIC TAPE** A refrigerator magnet uses  $\frac{5}{8}$  inch of magnetic tape. How many refrigerator magnets can you make with 10 inches of magnetic tape? Explain. \_\_\_\_\_

# REVIEW: Adding and Subtracting Integers

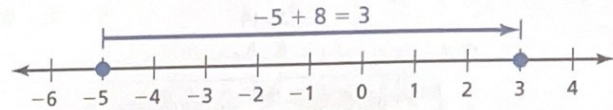
Name \_\_\_\_\_

## Key Concept and Vocabulary



## Visual Model

To add a positive number, move to the *right*.



To subtract a positive number, move to the *left*.

## Skill Examples

1.  $5 + (-3) = 5 - 3 = 2$

2.  $5 - (-2) = 5 + 2 = 7$

3.  $-2 + 4 = 2$

4.  $-3 - (-2) = -3 + 2 = -1$

5.  $8 - (-3) = 8 + 3 = 11$

To subtract, change the sign and add.

## Application Example

6. The temperature is  $8^{\circ}\text{F}$  in the morning and drops to  $-5^{\circ}\text{F}$  in the evening. What is the difference between these temperatures?

$$8 - (-5) = 8 + 5 = 13$$

• The difference is 13 degrees.

## PRACTICE MAKES PURR-FECT™



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

Find the sum or difference.

7.  $-2 + 3 = \underline{\quad}$

8.  $-4 - 5 = \underline{\quad}$

9.  $8 - 2 = \underline{\quad}$

10.  $8 - (-2) = \underline{\quad}$

11.  $-4 - (-1) = \underline{\quad}$

12.  $-5 + (-5) = \underline{\quad}$

13.  $4 - (-8) = \underline{\quad}$

14.  $4 - 8 = \underline{\quad}$

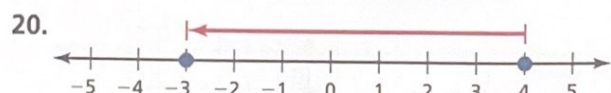
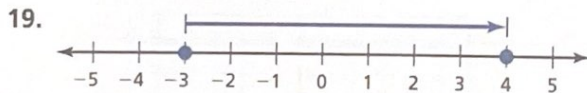
15.  $-4 + (-6) = \underline{\quad}$

16.  $-4 - (-6) = \underline{\quad}$

17.  $10 - 13 = \underline{\quad}$

18.  $13 - (-10) = \underline{\quad}$

Write the addition or subtraction shown by the number line.



21. **TEMPERATURE** The temperature is  $16^{\circ}\text{F}$  in the morning and drops to  $-15^{\circ}\text{F}$  in the evening. What is the difference between these temperatures? \_\_\_\_\_

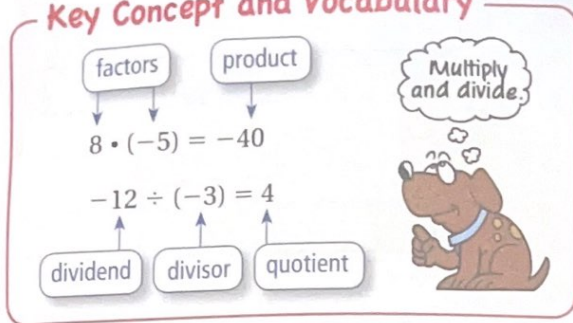
22. **SUBMARINE** A submarine is 450 feet below sea level. It descends 300 feet. What is its new position? Show your work.



# REVIEW: Multiplying and Dividing Integers

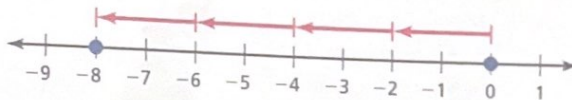
Name \_\_\_\_\_

## Key Concept and Vocabulary



## 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.

- |   |   |  |   |
|---|---|--|---|
| 7. $-3 \times (-5) = \underline{\quad}$ | 8. $7(-3) = \underline{\quad}$          | 9. $0 \cdot (-5) = \underline{\quad}$  | 10. $(-5)(-7) = \underline{\quad}$        |
| 11. $-8 \cdot 2 = \underline{\quad}$    | 12. $(-5)^2 = \underline{\quad}$        | 13. $(-3)^3 = \underline{\quad}$       | 14. $4(-2)(-3) = \underline{\quad}$       |
| 15. $-16 \div 4 = \underline{\quad}$    | 16. $-20 \div (-5) = \underline{\quad}$ | 17. $\frac{-9}{3} = \underline{\quad}$ | 18. $\frac{-20}{-10} = \underline{\quad}$ |

Complete the multiplication or division equation.

- |                                       |   |   |
|---------------------------------------|---|---|
| 19. $-15 \div \underline{\quad} = -3$ | 20. $45 \div \underline{\quad} = -5$    | 21. $\underline{\quad} \div (-20) = 5$  |
| 22. $8 \cdot \underline{\quad} = -64$ | 23. $\underline{\quad} \cdot (-9) = 27$ | 24. $-12 \cdot \underline{\quad} = -96$ |

- 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.  
 \_\_\_\_\_  
 \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# ADD AND SUBTRACT INTEGERS "SECRET MESSAGE"

Directions: Color in the letter that matches the correct answer to each problem. You will reveal a secret message once all problems are completed.

D	U	A	A	M	B	W	G	D	S	T	U	A	D	P	F	F	O	C	J	N	Q
W	X	E	P	P	F	N	G	I	I	L	H	B	B	S	C	N	R	S	J	F	S
U	V	R	C	H	F	U	K	H	H	L	W	M	S	R	C	W	R	S	T	V	F
C	I	J	O	Y	V	U	E	Q	P	B	D	M	X	N	E	I	A	F	Y	X	X
S	I	T	P	N	I	X	E	D	D	G	V	Y	W	H	I	K	J	V	V	S	Q
Q	H	T	U	N	P	P	O	O	L	Y	F	K	W	Q	U	N	M	D	G	C	P

$$-11 + 7 =$$

$$12 - 21 =$$

$$31 + (-12) =$$

$$-16 - 8 =$$

B.  
-4X.  
4H.  
18U.  
-18J.  
-9D.  
9Q.  
33V.  
-33P.  
-19A.  
19F.  
43I.  
-43C.  
-8S.  
8N.  
24L.  
-24

$$5 - (-18) =$$

$$46 + (-25) =$$

$$-62 - 14 =$$

$$-58 + 37 =$$

I.  
-13P.  
13Y.  
23W.  
-23H.  
-21K.  
21F.  
71N.  
-71U.  
-48D.  
48C.  
76E.  
-76T.  
-21V.  
21S.  
95X.  
-95

$$38 - 104 =$$

$$112 + (-79) =$$

$$135 - (-62) =$$

$$-204 - 147 =$$

M.  
-66U.  
66C.  
142F.  
-142X.  
-33G.  
33H.  
191Q.  
-191I.  
-73V.  
73O.  
197N.  
-197D.  
-57S.  
57P.  
351R.  
-351

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# ADD AND SUBTRACT INTEGERS "SECRET MESSAGE"

Show your work here.

1.	2.	3.	4.
5.	6.	7.	8.
9.	10.	11.	12.

Name: \_\_\_\_\_

Date: \_\_\_\_\_



Scan here for  
a video lesson

# Multiplying and Dividing Integers

## Section A: Multiplying Integers

Directions: Find the product for each of the questions below

1)  $-4 \times 7 =$  \_\_\_\_\_

6)  $-15 \times 2 =$  \_\_\_\_\_

2)  $-8 \times (-5) =$  \_\_\_\_\_

7)  $5 \times (-11) =$  \_\_\_\_\_

3)  $12 \times (-2) =$  \_\_\_\_\_

8)  $14 \times (-1) =$  \_\_\_\_\_

4)  $-6 \times 9 =$  \_\_\_\_\_

9)  $-9 \times (-3) =$  \_\_\_\_\_

5)  $3 \times 10 =$  \_\_\_\_\_

10)  $6 \times 8 =$  \_\_\_\_\_

## Section B: Dividing Integers

Directions: Find the quotient for each of the questions below

1)  $-50 \div (-5) =$  \_\_\_\_\_

6)  $-36 \div 6 =$  \_\_\_\_\_

2)  $36 \div 9 =$  \_\_\_\_\_

7)  $-28 \div (-7) =$  \_\_\_\_\_

3)  $-30 \div 6 =$  \_\_\_\_\_

8)  $25 \div 5 =$  \_\_\_\_\_

4)  $40 \div 5 =$  \_\_\_\_\_

9)  $-18 \div 6 =$  \_\_\_\_\_

5)  $-48 \div (-6) =$  \_\_\_\_\_

10)  $50 \div 10 =$  \_\_\_\_\_





Name: \_\_\_\_\_

Date: \_\_\_\_\_

# ROUNDING DECIMALS

NUMBER	WHOLE NUMBER	TENTHS	HUNDREDTHS
<i>Example</i> 9.626	10	9.6	9.63
6.7431			
5.972			
0.7391			
3.229			
45.801			
302.210			
8.9021			
1.187			
32.092			
7.999			

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# ROUNDING DECIMALS

NUMBER	WHOLE NUMBER	TENTHS	HUNDREDTHS
<i>Example</i> 5.628	6	5.6	5.63
0.962			
9.724			
2.4291			
4.777			
8.009			
101.872			
5.566			
3.907			
12.555			
3.999			

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# ROUNDING DECIMALS

NUMBER	WHOLE NUMBER	TENTHS	HUNDREDTHS
<i>Example</i> 4.285	4	4.3	4.29
0.44782			
9.931			
8.4271			
5.555			
16.905			
212.805			
7.7991			
3.082			
13.555			
9.999			

# Order Of Operations

Name : \_\_\_\_\_

Class : \_\_\_\_\_

Rules :

1. Parentheses
2. Exponents
3. Multiply and Divide (from left to right)
4. Addition and Subtraction ( from left to right)

Answer the questions below!

1.  $7 + 3 \times 5 =$

2.  $35 \div 5 \times 4 =$

3.  $12 + 8 \div 2 \times 6 =$

4.  $16 \times (3 + 1) - 29 =$

5.  $3^2 + 28 - 14 = 23$

6.  $4 \times (5 + 6 - 3) =$

7.  $38 - 8 \div 4 + 12 =$

8.  $48 \div 6 \times 3 + (14 - 12) =$

9.  $28 + 57 - 17 =$

10.  $20 + (8 - 5)^2 \times 3 =$

11.  $2^2 \times 16 - (32 + 22) =$

12.  $40 - 32 + 22 =$

13.  $27 \div 3 \times 2 + 13 =$

14.  $70 - 7 \times (4 - 1)^2 =$

15.  $25 - 6 \times 2^2 =$

16.  $45 \div (10 - 5) \times 3 =$

17.  $6 \times 8 - 11 + (16 \div 2) =$

18.  $(12 + 13) \times 5 - 20 =$

19.  $(7 + 8) \div (25 - 22) =$

20.  $18 + 6 \times 2 - 22 =$

**Find your answer here**

5

31

23

66

27

30

26

1

27

22

35

68

30

47

10

28

45

55

8

48

7

17

105

32

36

Name:

## Distributive Property Practice

Simplify each expression using distributive property.

$$3(4x + 7)$$

$$4(6m - 4)$$

$$- 11(4y - 3)$$

$$5(2y - 7)$$

$$12(4x + 1)$$

$$8(10 - m)$$

$$- 2(3k + 6)$$

$$3(5 - x)$$

$$- 3(8h + 7)$$

$$6(- 4 + w)$$

$$- (4x + 3)$$

$$11(2x + 4)$$

$$9(- x - 3)$$

$$9(- 5p - 7)$$

$$2(8x + 4)$$

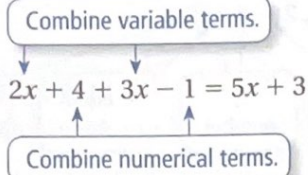
$$- 10(4y - 8)$$

$$- 7(7x + 2)$$

$$5(6 - 3x)$$

## REVIEW: Simplifying Expressions

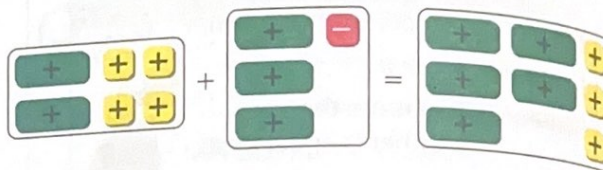
### Key Concept and Vocabulary



Name \_\_\_\_\_

### Visual Model

Algebra Tiles



### Skill Examples

- $2x + 5x = 7x$
- $1 + n + 4 = n + 5$
- $(2x + 3) - (x + 2) = x + 1$
- $2(y - 1) + 3(y + 2) = 5y + 4$

### Application Example

- The original cost of a shirt is  $x$  dollars. The shirt is on sale for 30% off. Write a simplified expression for the sale cost.



$$x - 0.3x = 0.7x$$

••• The sale cost is  $0.7x$ .



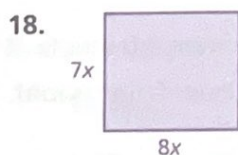
## PRACTICE MAKES PURR-FECT™

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

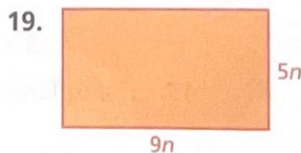
Simplify the expression. (Remove parentheses and combine like terms.)

- $4x + 6x =$  \_\_\_\_\_
- $9x + 3 - 6x - 2 =$  \_\_\_\_\_
- $7m - 2m + 5m =$  \_\_\_\_\_
- $(3x + 6) - x =$  \_\_\_\_\_
- $(x + 6) - (x + 6) =$  \_\_\_\_\_
- $(5x + 4) - 2(x + 1) =$  \_\_\_\_\_
- $3n + 5 - 2n =$  \_\_\_\_\_
- $3(x + 2) =$  \_\_\_\_\_
- $2 - (x + 1) =$  \_\_\_\_\_
- $5 - (1 - n) =$  \_\_\_\_\_
- $(4x - 2) + 3(x + 1) =$  \_\_\_\_\_
- $5(x + 2) - 2(x + 2) =$  \_\_\_\_\_

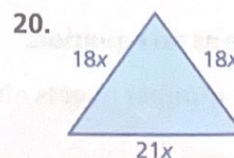
Write a simplified expression for the perimeter of the rectangle or triangle.



Perimeter = \_\_\_\_\_



Perimeter = \_\_\_\_\_



Perimeter = \_\_\_\_\_

- The original cost of a cell phone is  $x$  dollars. The phone is on sale for 35% off. Write a simplified expression for the sale cost. \_\_\_\_\_



Name: \_\_\_\_\_ Date: \_\_\_\_\_ Pd: \_\_\_\_\_

# COMBINING LIKE TERMS

Directions: Simplify each expression by combining like terms.

#1  $-7 + 13x + 2x + 8$

#2  $9 + 7y - 2 - 5y$

#3  $2 + 3x - 4x + 6$

#4  $5 + 2x + 2$

#5  $2(4x - 1) + x$

#6  $6x + 2(x + 4)$

#7  $3(x + 5) - 10$

#8  $15x - (x - 4)$

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Pd: \_\_\_\_\_

# SOLVING ONE-STEP EQUATIONS

Directions: Solve each equation. Show all work and check your answers.

#1  $7x = 28$

Ex:

$$\frac{7x}{7} = \frac{28}{7}$$

$$x = 4$$

#2  $x - 15 = -27$

Ex:

$$\begin{array}{r} x - 15 = -27 \\ +15 \quad +15 \\ \hline x = -12 \end{array}$$

#3  $-16 + x = -6$

Ex:

$$\begin{array}{r} -16 + x = -6 \\ +16 \quad +16 \\ \hline x = 10 \end{array}$$

#4  $x + (-4) = 15$

Ex:

$$\begin{array}{r} x - 4 = 15 \\ +4 \quad +4 \\ \hline x = 19 \end{array}$$

#5  $x - (-6) = 11$

Ex:

$$\begin{array}{r} x + 6 = 11 \\ -6 \quad -6 \\ \hline x = 5 \end{array}$$

#6  $14 = 2x$

Ex:

$$\begin{array}{r} 14 = 2x \\ \frac{14}{2} = \frac{2x}{2} \\ 7 = x \end{array}$$

#7  $\frac{x}{3} = 10$

Ex:

$$\begin{array}{r} (3)\frac{x}{3} = 10(3) \\ \frac{x}{3} \\ \hline x = 30 \end{array}$$

#8  $-6 = \frac{x}{4}$

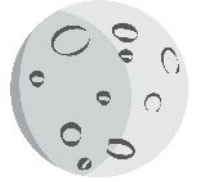
Ex:

$$\begin{array}{r} (4)-6 = \frac{x}{4}(4) \\ -24 = x \end{array}$$



## *Practice with 1 step equations*

*Name:*



**1.  $x + 9 = 12$**

**6.  $x / 7 = 9$**

**2.  $x - 12 = 1$**

**7.  $x - 13 = 17$**

**3.  $x + 17 = 40$**

**8.  $x(12) = 108$**

**4.  $x(4) = 32$**

**9.  $x(10) = 90$**

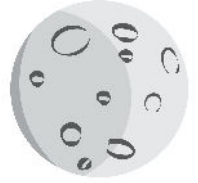
**5.  $x / 8 = 11$**

**10.  $x + 19 = 42$**



$$11. x(11) = 121$$

$$17. x/6 = 54$$



$$12. x - 100 = 100$$

$$18. x + 58 = 107$$

$$13. x / 1 = 13$$

$$19. x / 3 = 12$$

$$14. x(8) = 24$$

$$20. x(6) = 24$$

$$15. x+31 = 99$$

$$21. x - 23 = 39$$

$$16. x - 116 = 221$$

$$22. x / 9 = 72$$



Name: \_\_\_\_\_



# Solving Linear Equations

Directions: Match each equation on the left to its solution on the right.

1.  $3x = 12$

a.  $x = -5$

2.  $3x - 6 = 12$

b.  $x = 3$

3.  $-4x = 20$

c.  $x = 4$

4.  $-4x + 8 = 20$

d.  $x = 8$

5.  $5x = -30$

e.  $x = 6$

6.  $-10 + 5x = 30$

f.  $x = -4$

7.  $6x = -24$

g.  $x = -6$

8.  $-6 - 6x = -24$

h.  $x = -3$