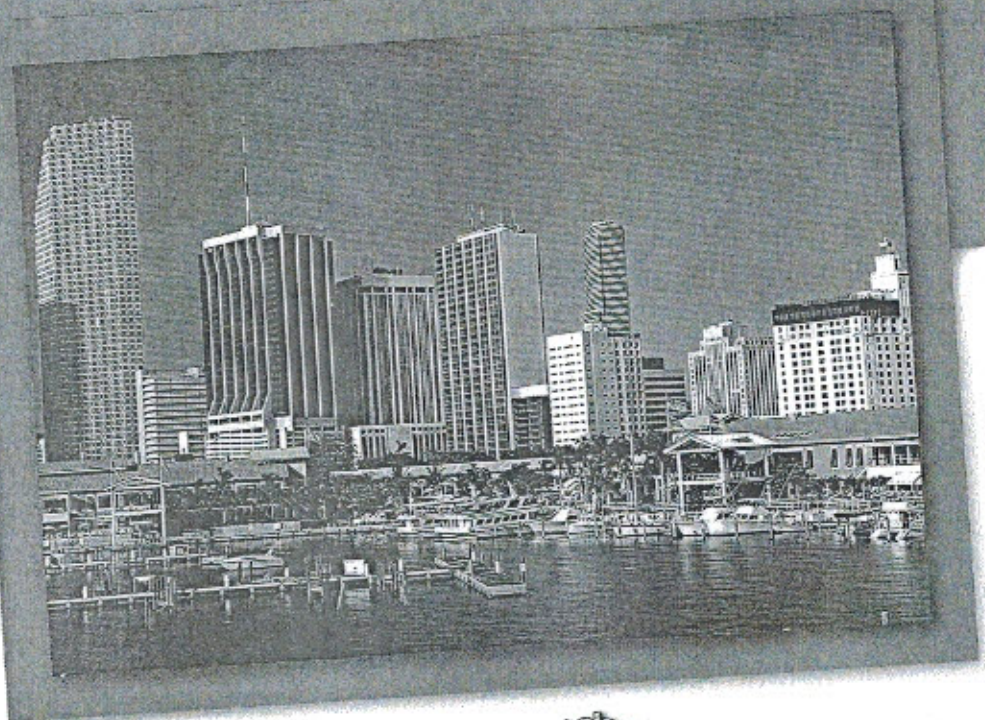


# The Four-Step Plan



## NGSSS



**Reinforcement of MA.4.A.6.1** Use and represent numbers through millions in various contexts, including estimation of relative sizes of amounts or distances.

## Real-World EXAMPLE



In a recent year, New York had a population of 19,297,729 and Florida had a population of 18,251,243. How many more people are in New York than Florida?

### Understand

- What facts do you know?
- What do you need to find out?

You know the populations of New York and Florida. You need to find how many more people are in New York than Florida.

### Plan

- Think about how the facts relate to each other.

	New York 19,297,729
?	<b>Florida</b> <b>18,251,243</b>

To find how much greater New York's population is than Florida's, subtract.

## Solve

- Use your plan to solve the problem.

**Estimate**  $19,000,000 - 18,000,000 = 1,000,000$

$$\begin{array}{r} \phantom{19,}297,\overset{612}{\cancel{7}29} \\ - 18,251,243 \\ \hline 1,046,486 \end{array}$$

New York  
Florida

So, New York has 1,046,486 more people than Florida.

## Check

- Does your answer make sense?
- If not, solve the problem another way.

You can check the subtraction by using addition.

Florida      Difference      New York

$$18,251,243 + 1,046,486 = 19,297,729$$

This is New York's population. So, the answer is correct. ✓

## CHECK What You Know


Use the four-step plan and bar diagram to solve.

1. The areas of the United States and Canada are listed in the table. How much larger is Canada than the United States?

Country	Area (square miles)
United States	3,537,441
Canada	3,855,103

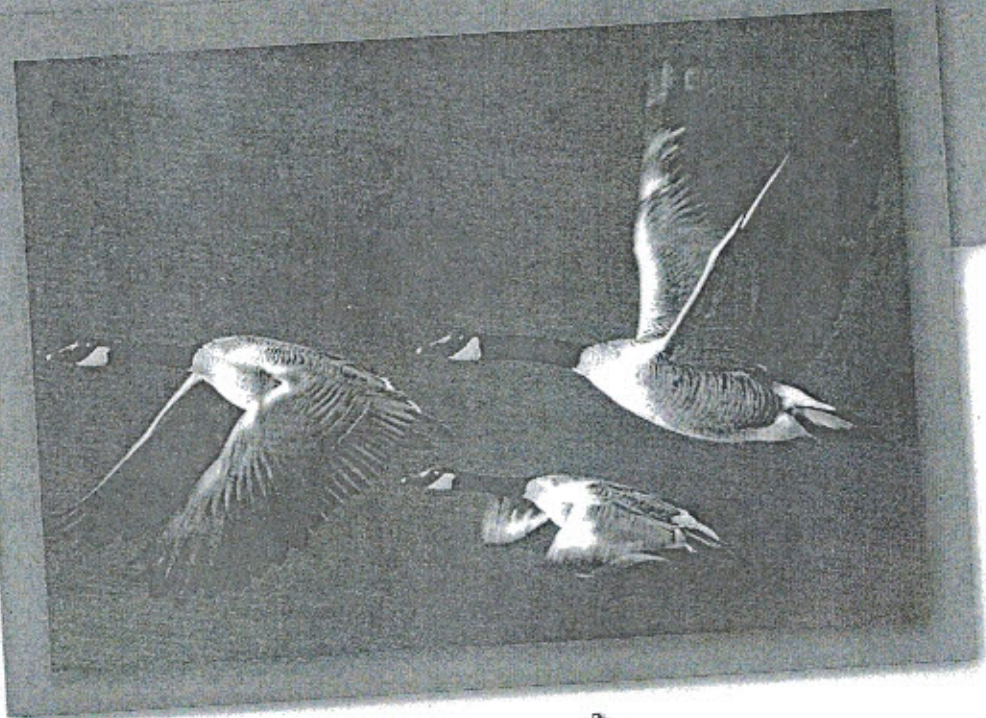
	Canada 3,855,103
?	United States 3,537,441

2. Fenway Park in Boston has a seating capacity of 39,928. Wrigley Field in Chicago has a seating capacity of 41,118. What is the total seating capacity of the two stadiums?

3.  **Write Math** Explain how estimation can help determine whether your answer is reasonable.



# Multiply Whole Numbers



## NGSSS



**Reinforcement of MA.4.A.1.2** Multiply multi-digit whole numbers through four digits fluently, demonstrating understanding of the standard algorithm, and checking for reasonableness of results, including solving real-world problems.

## Real-World EXAMPLE



- 1 BIRDS** A Canadian goose travels 78 miles each day during migration. If the goose travels for 16 days, how many miles does it travel?

Find  $78 \times 16$ .

**Estimate**  $80 \times 20 = 1,600$

**Step 1**

$$\begin{array}{r} 78 \\ \times 16 \\ \hline 468 \end{array}$$

Multiply the ones.

**Step 2**

$$\begin{array}{r} 78 \\ \times 16 \\ \hline 468 \\ 780 \end{array}$$

Multiply the tens.

**Step 3**

$$\begin{array}{r} 78 \\ \times 16 \\ \hline 468 \\ + 780 \\ \hline 1,248 \end{array}$$

Add.

So, the goose travels 1,248 miles in 16 days.

**Check for Reasonableness** The estimate is 1,600. Since 1,248 is close to the estimate, the answer is reasonable. ✓

**EXAMPLE****Multiply Four-Digit Numbers****2** Find  $1,052 \times 21$ .Estimate  $1,000 \times 20 = 20,000$ **Step 1**

$$\begin{array}{r} 1052 \\ \times 21 \\ \hline 1052 \end{array}$$

Multiply the ones.

**Step 2**

$$\begin{array}{r} 1052 \\ \times 21 \\ \hline 1052 \\ 21040 \end{array}$$

Multiply the tens.

**Step 3**

$$\begin{array}{r} 1052 \\ \times 21 \\ \hline 1052 \\ + 21040 \\ \hline 22092 \end{array}$$

Add.

So,  $1,052 \times 21 = 22,092$ .**Check for Reasonableness** Since 22,092 is close to the estimate, 20,000, the answer is reasonable. ✓**CHECK What You Know****Multiply.**

1.  $\begin{array}{r} 33 \\ \times 12 \\ \hline \end{array}$

2.  $\begin{array}{r} 67 \\ \times 50 \\ \hline \end{array}$

3.  $\begin{array}{r} 47 \\ \times 41 \\ \hline \end{array}$

4.  $\begin{array}{r} 42 \\ \times 65 \\ \hline \end{array}$

5.  $\begin{array}{r} 409 \\ \times 11 \\ \hline \end{array}$

6.  $\begin{array}{r} 572 \\ \times 22 \\ \hline \end{array}$

7.  $\begin{array}{r} 5,000 \\ \times 200 \\ \hline \end{array}$

8.  $\begin{array}{r} 3,268 \\ \times 700 \\ \hline \end{array}$

9.  $77 \times 63$

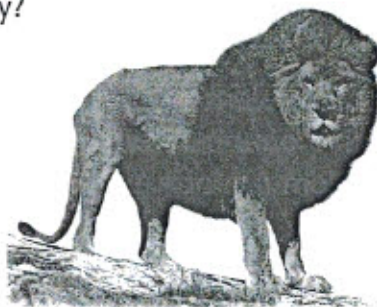
10.  $78 \times 29$

11.  $68 \times 208$

12. The table shows prices for two different bicycles. How much would 3 Off-Roaders cost?

Bike	Price
Off-Roader	\$257
Speedster	\$280

13. Pedro's father bought 5 cases of fruit punch. A case of fruit punch for a party contains 24 cans. How many cans did he buy?
14. A male African lion weighs about 450 pounds. If 1 pound equals 16 ounces, how many ounces does a male African lion weigh?



15. **Write Math** Write a real-world problem that can be solved by multiplying a four-digit number by 4.



# Place Value Through Thousandths



## NGSSS



Reinforcement  
of MA.4.A.2.1

Use decimals through the thousandths place to name numbers between whole numbers.

## EXAMPLE



- 1 **OLYMPICS** In 2008, Shawn Johnson had a score of 16.225 on the balance beam to win a gold medal. Name the place value of the underlined digit in 16.225. Then write the value of the digit.

A digit and its *place*, or *place-value*, name a number.

Place-Value Chart				
tens	ones	tenths	hundredths	thousandths
1	6	2	2	5

In the decimal 16.225, the underlined 2 is in the hundredths place. Its value is 0.02.

## EXAMPLE

### Decimal Place Value

- 2 Write *three and fifteen thousandths* in standard and expanded form.

Standard Form: 3.015

Expanded Form:  $3 + 0.0 + 0.01 + 0.005$

**EXAMPLE** Decimals in Word Form

3 Write 2.547 in word form.

tens	ones	tenths	hundredths	thousandths
	2	5	4	7

The place value of the last digit, 7, is thousandths.

**Word form:** two and five hundred forty-seven thousandths**CHECK** What You Know

Name the place of the underlined digit. Then write the value of the digit.

1. 57.234

2. 8.91

3. 76.638

4. 11.563

Write each number in standard form and expanded form.

5. There were *two and four hundredths* inches of rain yesterday.6. A giant tortoise can travel *seventeen hundredths* miles per hour.7. The average speed for a NASCAR driver is about *one hundred thirty-nine and six hundred ninety-seven thousandths* mile per hour.

Write each number in word form.

8. 5.071

9. 60.14

10. 91.005

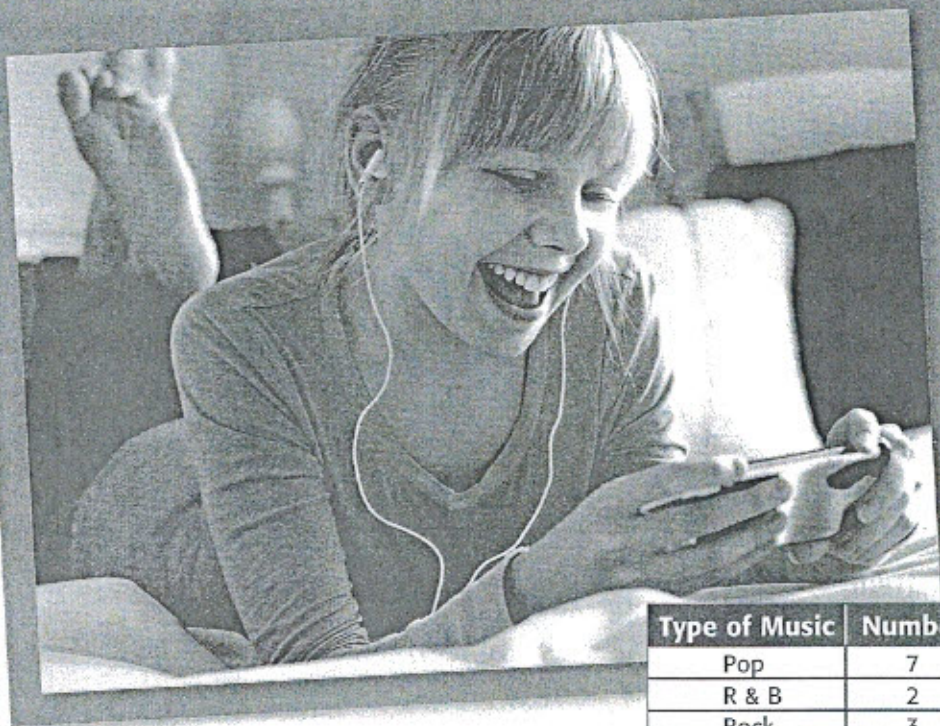
11. **FIND THE ERROR** Maria is writing 7.62 in expanded form. Find her mistake and correct it.

value of 7 → 700  
 value of 6 → 60  
 value of 2 → 2  
 700 + 60 + 2

12. **Write Math** Explain how place value is used to read decimals.



# Equivalent Fractions



Type of Music	Number
Pop	7
R & B	2
Rock	3

## NGSSS



Reinforcement  
of MA.4.A.6.3

Generate equivalent fractions and simplify fractions.

## Real-World EXAMPLE



- 1 **MUSIC** The table shows the different types of music in Carla's music collection. Three twelfths of the music Carla listens to is rock. Find a fraction that is equivalent to  $\frac{3}{12}$ .

To find *equivalent fractions*, multiply or divide the numerator and denominator by the same nonzero number.

$$\frac{3}{12} = \frac{3 \div 3}{12 \div 3} = \frac{1}{4}$$

Since 3 is a common factor of both 3 and 12, divide the numerator and denominator by 3.

$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$							

$$\frac{3}{12} = \frac{1}{4}$$

So,  $\frac{1}{4}$  of the songs in Carla's music collection are rock.

**EXAMPLE** Equivalent Fractions

- 2 Find a fraction equivalent to  $\frac{1}{3}$ .

Multiply the numerator and denominator by the same number. We chose 2.

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

You can also multiply the numerator and the denominator by any other nonzero number.

So,  $\frac{2}{6}$  is equivalent to  $\frac{1}{3}$ .

## CHECK What You Know

Find an equivalent fraction for each fraction.

1.  $\frac{8}{10}$

2.  $\frac{3}{15}$

3.  $\frac{16}{20}$

4.  $\frac{6}{12}$

5.  $\frac{1}{2}$

6.  $\frac{2}{7}$

7.  $\frac{3}{5}$

8.  $\frac{4}{9}$

9. Darius finished his math homework in  $\frac{1}{3}$  hour. Selina finished her homework in  $\frac{2}{6}$  hour. Did it take Darius the same amount of time as Selina? Explain.

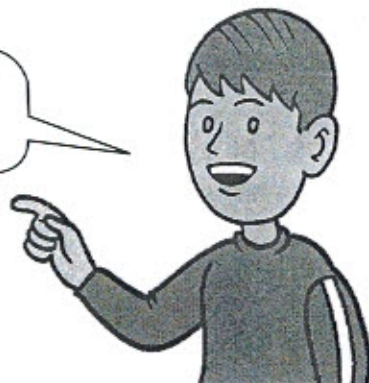
10. The table shows the fraction of each color of cars in a parking lot. Find an equivalent fraction for the cars that were black.


Cars	
red	$\frac{2}{12}$
silver	$\frac{1}{3}$
black	$\frac{6}{12}$

11. Tricia ate  $\frac{1}{4}$  of a pizza. Juan ate the same amount from another pizza, cut into eighths. How many pieces did Juan eat?

12. **FIND THE ERROR** Tom is finding an equivalent fraction for  $\frac{3}{7}$ . Find his mistake and correct it.

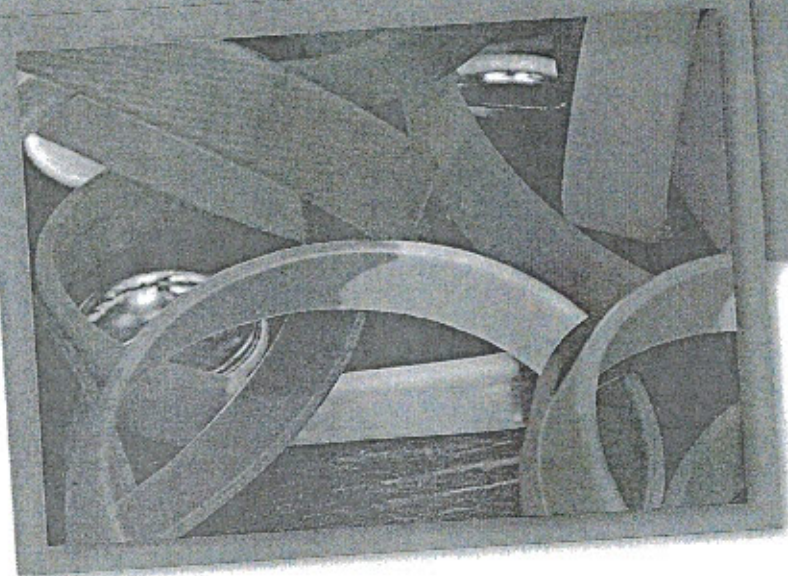
$$\frac{3}{7} = \frac{3+2}{7+2} = \frac{5}{9}$$



13.  **Write Math** Explain how to find a fraction equivalent to  $\frac{1}{5}$ .



# Growing and Repeating Patterns



## NGSSS



### Reinforcement of MA.4.A.4.1

Generate algebraic rules and use all four operations to describe patterns, including nonnumeric growing or repeating patterns.

A *pattern* is a sequence of numbers, figures, or symbols that follow a *rule*.

## Real-World EXAMPLE



- 1 **MONEY** Student Council is selling spirit bracelets to raise money for a charity. How much do 6 bracelets cost?

**Find a pattern.**

The cost of the bracelets increases by \$3 each time a new bracelet is purchased.

**Use the pattern to complete the table.**

School Spirit Bracelets	
Number of Bracelets	Cost
2	\$6
3	\$9
4	\$12
5	■
6	■

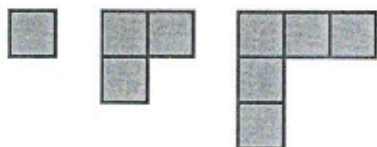
School Spirit Bracelets	
Number of Bracelets	Cost
2	\$6
3	\$9
4	\$12
5	\$15
6	\$18

↖ + \$3  
↖ + \$3  
↖ + \$3  
↖ + \$3

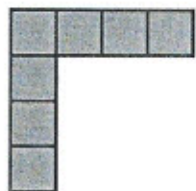
So, Student Council will receive \$18 for selling 6 bracelets.

**EXAMPLE** Geometric Patterns

2 Draw the next figure in the pattern.



Each new figure has 2 squares added. The next figure is shown below.

**CHECK What You Know**

Identify, describe, and extend each pattern. Then find the missing number or numbers.

- 10, 12, ■, 16, 18, ■
- 36, 33, 30, 27, 24, ■
- 8, 13, 18, 23, 28, ■
- 12, 16, 20, 24, 28, ■
- 12, 18, ■, 30, 36, ■
- 52, 46, 40, 34, 28, ■
- 729, 243, 81, 27, 9, ■
- 3, 2, 4, 3, 5, ■
- 7, 7, 8, 8, 9, ■

10. The table shows the number of laps Trey runs. How many laps will Trey run on the sixth day?

Day	1	2	3	4	5	6
Number of Laps	4	10	14	20	24	■

11. Yolanda practices the guitar each day. Identify and describe the pattern shown in her schedule.

Day	1	2	3	4	5
Time (min)	20	40	20	40	20

12. Draw the next figure in the pattern.



13. **Write Math** Explain why the number 25 is not in the number pattern in Exercise 1.



# Appropriate Units of Measure



## NGSSS



Reinforcement of MA.4.G.3.3

Select and use appropriate units, both customary and metric, strategies, and measuring tools to estimate and solve real-world area problems.

## Real-World EXAMPLE



- 1 **MEASUREMENT** Adele has a rectangular rug under her bed. What is the most reasonable estimate for the area of the rug: 144 square inches, 144 square feet, or 144 square yards?

Think about the size of each customary unit of measure.

1 square inch is about the size of a postage stamp.

1 square foot is about the size of a floor tile.

1 square yard is about the size of a sheet of poster board.

Adele's rug is too small to be 144 square yards. It is too large to be 144 square inches.

So, the most reasonable estimate for the area of Adele's rug is 144 square feet.

**EXAMPLE** Estimate Metric Units

- 2 **MEASUREMENT** What is the most reasonable estimate for the area of a piece of notebook paper: 550 square millimeters, 550 square centimeters, or 550 square meters?

Think about the size of each metric unit of measure.

1 square millimeter is about the size of a small crumb.

1 square centimeter is about the size of a computer key.

1 square meter is about the size of a desk top.

The notebook paper is too small to be 550 square meters. It is too large to be 550 square millimeters.

So, the most reasonable estimate for the area of a piece of notebook paper is 550 square centimeters.

**✓ CHECK What You Know**

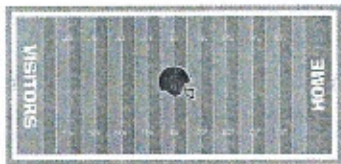
Choose the most appropriate unit to measure each area.

1. basketball hoop



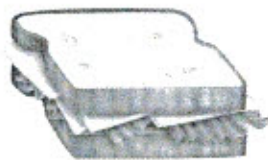
12 square inches or  
12 square feet

2. football field



6,000 square yards or  
6,000 square inches

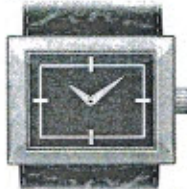
3. sandwich



22 square inches or  
22 square feet

Choose the most appropriate unit to measure each area.

4. watch face



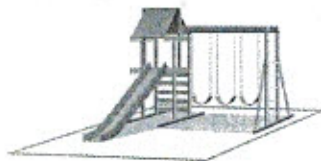
400 square millimeters or  
400 square centimeters

5. folder



600 square centimeters or  
600 square meters

6. playground

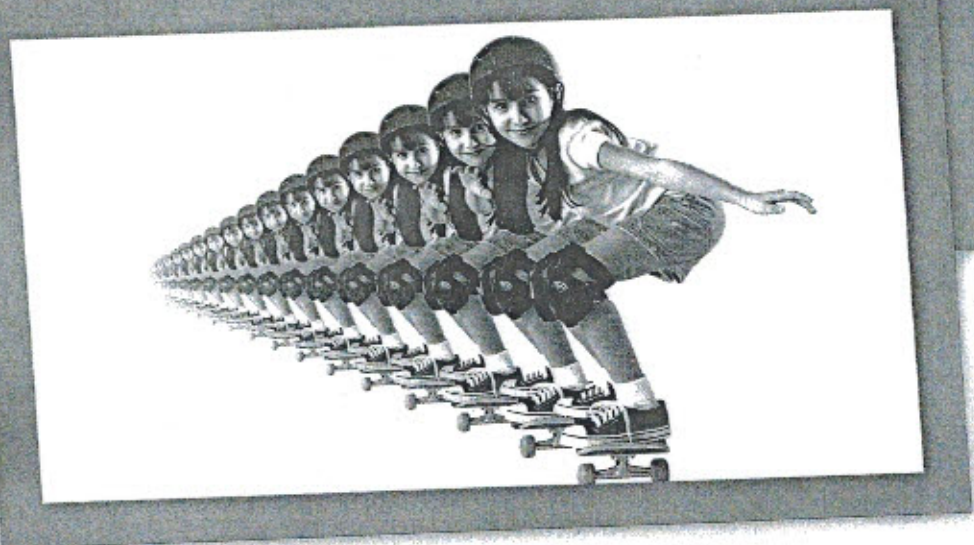


1,600 square centimeters or  
1,600 square meters

7. **Write Math** Steve mowed a lawn with an area of 154 square yards. Dominik mowed a lawn with an area of 154 square feet. Who mowed the larger lawn? Explain.



# Identify Transformations



## NGSSS



### Reinforcement of MA.4.G.5.2

Identify and describe the results of translations, reflections, and rotations of 45, 90, 180, 270, and 360 degrees, including figures with line and rotational symmetry.

A *transformation* is a change in the position of a figure.

## Key Concept

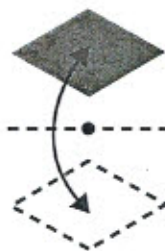
## Transformations

### rotation



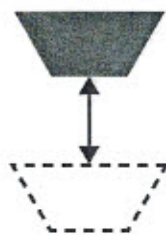
A figure is rotated or turned around a point.

### reflection



A figure is flipped across a line to make a mirror image.

### translation



A figure is moved in a vertical, horizontal, or diagonal direction.

## Real-World EXAMPLE

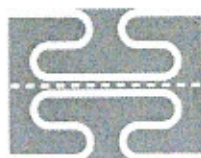


- 1 SKATEBOARDING** Determine whether the transformation of the skateboarder above is a *rotation*, *reflection*, or *translation*.

The skateboarder is moving in a horizontal direction. So, the transformation is a translation.

### EXAMPLE

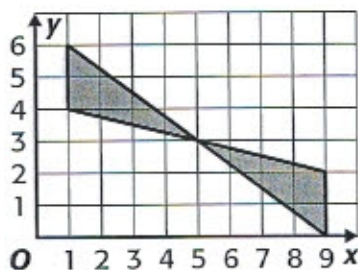
- 2 ART What transformation is shown in the design?



The top and bottom half are mirror images of each other. So, this design shows a reflection across a horizontal line.

### EXAMPLE

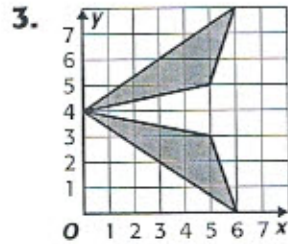
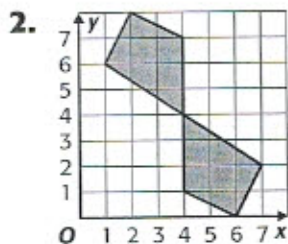
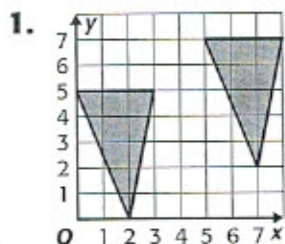
- 3 Determine whether the figure below shows a *translation*, *reflection*, or *rotation*.



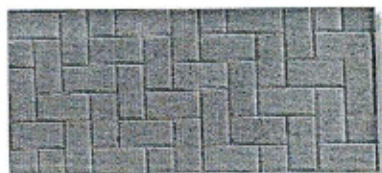
The triangle has been turned  $180^\circ$  about the point at  $(5, 3)$  to a new position. So, this is a rotation.

## Practice and Problem Solving

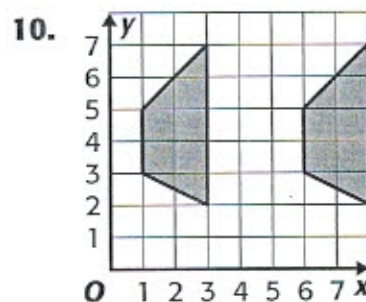
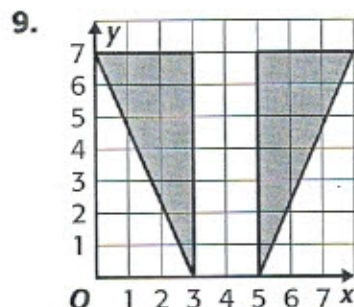
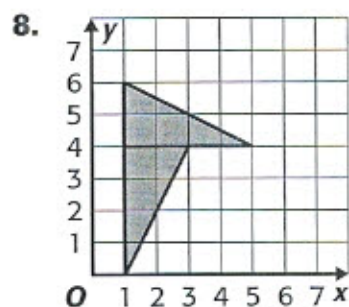
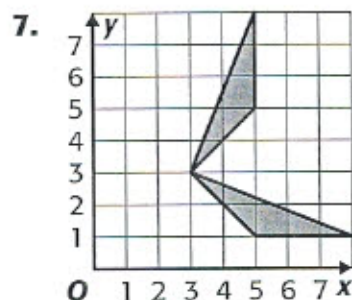
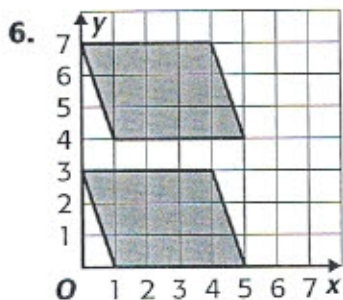
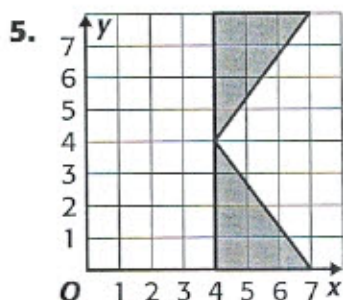
Determine whether each transformation is a *translation*, *reflection*, or *rotation*.



4. Which transformations appear in the pattern of bricks shown at the right?



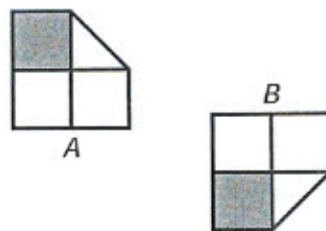
Determine whether each transformation is a *translation*, *reflection*, or *rotation*.



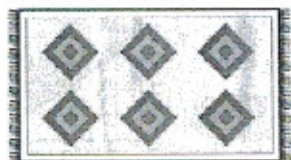
11. Was a translation, reflection, or rotation used to create the pattern below?



12. Two different transformations were used to change figure A to figure B. Describe them.



13. Analyze the pattern below. Which transformations could be used to create the design?



14. Describe how you could use a transformation to complete the figure below.

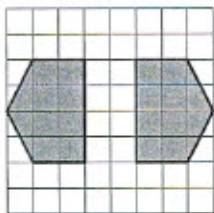


15. **Write Math** Create a pattern using translations, reflections, and rotations. Describe the basic shape that you used and the transformations that you used.

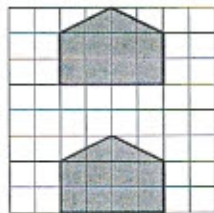
1. Five members of the Reed family go to the movies. Each admission is \$8, and everyone buys a drink for \$2 each. Find the total cost for admission and drinks.

Determine whether each transformation is a *translation*, *reflection*, or *rotation*.

2.



3.



Multiply.

4.  $47 \times 53$                       5.  $72 \times 55$
6.  $89 \times 605$                       7.  $780 \times 22$
8. Jaden studies 45 minutes every day. How many minutes does he study in 12 days?

Name the place of the underlined digit. Then write the value of the digit.

9. 7.84                              10. 63.592

11. Helen traveled *two hundred forty-two and five tenths* miles to her grandma's house. Write this number in standard form and expanded form.

Find a fraction equivalent to each fraction.

12.  $\frac{1}{5}$

13.  $\frac{2}{9}$

14.  $\frac{1}{4}$

15.  $\frac{6}{10}$

16. José has finished  $\frac{2}{3}$  of his science project. Which student has also finished the same amount as José?

Student	Amount Finished
Ashley	$\frac{1}{2}$
Jamie	$\frac{3}{9}$
Maria	$\frac{4}{6}$
Tyrone	$\frac{2}{5}$


Describe each pattern. Then find the missing number.

17. 3, 5, 7, 9, 11, ■
18. 50, 45, 40, 35, 30, ■
19. 2, 6, 18, 54, 162, ■
20. Choose the best estimate for the area of a book.

108 sq in.

108 sq ft

108 sq yd

21. Write 2.764 in word form.
22.  **Write Math** Explain the differences between a rotation and reflection.

**Skills Practice***Divide Greater Numbers***Divide. Use estimation to check.**

1.  $5 \overline{)5,840}$

2.  $4 \overline{)6,832}$

3.  $2 \overline{)3,988}$

4.  $6 \overline{)9,384}$

5.  $8 \overline{)3,767}$

6.  $7 \overline{)4,513}$

7.  $3 \overline{)6,083}$

8.  $9 \overline{)2,750}$

9.  $2 \overline{)4,147}$

10.  $6 \overline{)3,199}$

11.  $5 \overline{)3,079}$

12.  $7 \overline{)6,213}$

13.  $\$1,328 \div 4 =$  \_\_\_\_\_

14.  $7,895 \div 9 =$  \_\_\_\_\_

15.  $5,620 \div 5 =$  \_\_\_\_\_

16.  $1,841 \div 2 =$  \_\_\_\_\_

17.  $1,697 \div 6 =$  \_\_\_\_\_

18.  $7,986 \div 8 =$  \_\_\_\_\_

19.  $\$5,500 \div 6 =$  \_\_\_\_\_

20.  $7,200 \div 8 =$  \_\_\_\_\_

21.  $4,000 \div 3 =$  \_\_\_\_\_

22.  $5,821 \div 9 =$  \_\_\_\_\_

**Solve.**

23. The King School holds Junior Olympic games in its sports stadium for 3 days. Each day, every seat in the stadium is full. A total of 9,747 people come to the games. How many seats does the stadium have?
- \_\_\_\_\_

24. The King School raises \$5,286 by selling Junior Olympic banners. Each banner costs \$6. How many banners does the school sell?
- \_\_\_\_\_

**Homework Practice***Divide Greater Numbers***Divide. Use estimation to check.**

1.  $5 \overline{)5,098}$

2.  $6 \overline{)6,485}$

3.  $2 \overline{)3,458}$

4.  $6 \overline{)7,349}$

5.  $7 \overline{)8,655}$

6.  $5 \overline{)5,437}$

7.  $9 \overline{)9,950}$

8.  $8 \overline{)8,349}$

9.  $3 \overline{)6,980}$

10.  $2 \overline{)8,642}$

11.  $3 \overline{)4,743}$

12.  $5 \overline{)8,115}$

13.  $3 \overline{)8,765}$

14.  $2 \overline{)6,567}$

15.  $4 \overline{)8,219}$

16.  $3 \overline{)9,651}$

**Spiral Review****Divide. Use estimation to check.** (Lesson 10-3D)

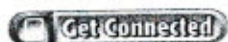
17.  $4 \overline{)427}$

18.  $6 \overline{)641}$

19.  $2 \overline{)815}$

20.  $3 \overline{)929}$

21. Look back over the page. Circle all the numbers that can be rounded to a number greater than 9,000.

For more examples, go to [www.macmillanmh.com](http://www.macmillanmh.com).

**Skills Practice***Estimate Decimal Sums and Differences***Estimate. Round to the nearest whole number.**

- |                              |                               |                              |
|------------------------------|-------------------------------|------------------------------|
| 1. $5.1 + 9.4$ _____         | 2. $7.45 + 8.56$ _____        | 3. $26.14 - 12.95$ _____     |
| 4. $6.7 + 8.4$ _____         | 5. $4.32 + 7.79$ _____        | 6. $\$34.95 - \$12.20$ _____ |
| 7. $1.9 + 3.8$ _____         | 8. $8.57 - 3.82$ _____        | 9. $25.60 - 11.75$ _____     |
| 10. $\$6.35 + \$5.95$ _____  | 11. $17.26 - 13.78$ _____     | 12. $47.15 - 17.11$ _____    |
| 13. $19.76 + 9.95$ _____     | 14. $77.36 - 15.93$ _____     |                              |
| 15. $\$10.25 + \$3.25$ _____ | 16. $\$16.12 - \$12.80$ _____ |                              |
| 17. $19.67 + 9.94$ _____     | 18. $94.32 - 22.80$ _____     |                              |
| 19. $3.7 + 5.2 + 4.6$ _____  | 20. $\$54.10 - \$34.89$ _____ |                              |
| 21. $4.1 + 9.6 + 1.9$ _____  | 22. $13.4 - 6.79$ _____       |                              |
| 23. $2.9 + 6.7 + 7.3$ _____  | 24. $47.65 - 17.93$ _____     |                              |

**Estimate by rounding to the nearest whole number. Then compare. Use  $>$ ,  $<$ , or  $=$ .**

- |                                                   |                                                   |
|---------------------------------------------------|---------------------------------------------------|
| 25. $3.7 + 2.6$ <input type="radio"/> $1.9 + 4.2$ | 26. $7.2 - 4.7$ <input type="radio"/> $6.8 - 5.8$ |
| 27. $4.9 + 1.6$ <input type="radio"/> $5.1 + 3.1$ | 28. $5.2 - 2.3$ <input type="radio"/> $9.7 - 7.9$ |
| 29. $7.6 - 2.2$ <input type="radio"/> $5.6 - 1.3$ | 30. $7.7 + 7.2$ <input type="radio"/> $8.1 + 9.1$ |
| 31. $8.3 - 6.6$ <input type="radio"/> $4.2 - 2.3$ | 32. $8.7 + 9.6$ <input type="radio"/> $9.1 + 8.6$ |
| 33. $5.8 + 6.3$ <input type="radio"/> $8.2 + 5.2$ | 34. $1.6 + 2.1$ <input type="radio"/> $1.7 + 2.0$ |

**Solve.**

35. The odometer on a new car shows 17.7 miles. Santos drives the car 12.9 miles. About how many miles does the odometer show now?
- \_\_\_\_\_
36. Zita ran a total of 5.7 miles today. She ran 3.2 miles this morning. About how many miles did Zita run this afternoon?
- \_\_\_\_\_

**Homework Practice***Add Decimals***Add. Use estimation to check for reasonableness.**

$$\begin{array}{r} 1. \quad 0.5 \\ + 0.3 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 4.3 \\ + 5.42 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad \$9.32 \\ + \$4.98 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 0.9 \\ + 0.7 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 0.78 \\ + 8.56 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad \$12.61 \\ + \$ 6.50 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 1.5 \\ + 0.7 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 11.47 \\ + 10.78 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad \$13.01 \\ + \$ 5.12 \\ \hline \end{array}$$

$$10. \quad 42.31 + 8.77 \quad \underline{\hspace{2cm}}$$

$$11. \quad 6.4 + 4.2 + 2.7 \quad \underline{\hspace{2cm}}$$

$$12. \quad 52.89 + 48.24 \quad \underline{\hspace{2cm}}$$

$$13. \quad 4.2 + 3.33 + 8.1 \quad \underline{\hspace{2cm}}$$

$$14. \quad \$46.75 + \$17.17 \quad \underline{\hspace{2cm}}$$

$$15. \quad 7.1 + 2.54 + 3.48 \quad \underline{\hspace{2cm}}$$

**Spiral Review****Solve. Use logical reasoning.** (Lesson 11-1C)

16. A number is multiplied by 4. Then 7 is subtracted from the product. Finally the result is divided by 3. The result is 7. What is the number?

\_\_\_\_\_

17. Rafael took 15 minutes to walk home. He played basketball for 30 minutes. Then he ate a snack for 20 minutes. Finally he sat down to start his homework at 4:00 P.M. What time did he leave school?

\_\_\_\_\_

18. Marlene has 5 times as many pairs of socks as DVDs. She has 4 more DVDs than computer games. She has half as many computer games as baseball caps. If she has 6 baseball caps, how many pairs of socks does she have? \_\_\_\_\_

 **Get Connected** For more examples, go to [www.macmillanmh.com](http://www.macmillanmh.com).

**Skills Practice***Subtract Decimals***Subtract. Use estimation or addition to check.**

1. 
$$\begin{array}{r} 0.7 \\ - 0.4 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 0.43 \\ - 0.26 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 9.00 \\ - 0.09 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 5.34 \\ - 4.67 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 6.3 \\ - 0.7 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 0.44 \\ - 0.22 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 7.17 \\ - 2.70 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 1.67 \\ - 0.50 \\ \hline \end{array}$$

9. 
$$\begin{array}{r} 9.1 \\ - 2.3 \\ \hline \end{array}$$

10. 
$$\begin{array}{r} 7.04 \\ - 3.66 \\ \hline \end{array}$$

11. 
$$\begin{array}{r} 9.04 \\ - 7.50 \\ \hline \end{array}$$

12. 
$$\begin{array}{r} 19.83 \\ - 3.60 \\ \hline \end{array}$$

13. 
$$\begin{array}{r} 4.5 \\ - 2.7 \\ \hline \end{array}$$

14. 
$$\begin{array}{r} 15.03 \\ - 3.12 \\ \hline \end{array}$$

15. 
$$\begin{array}{r} 6.00 \\ - 4.70 \\ \hline \end{array}$$

16. 
$$\begin{array}{r} 8.15 \\ - 2.07 \\ \hline \end{array}$$

17. 
$$\begin{array}{r} 1.2 \\ - 0.7 \\ \hline \end{array}$$

18. 
$$\begin{array}{r} 4.12 \\ - 1.27 \\ \hline \end{array}$$

19. 
$$\begin{array}{r} 8.20 \\ - 4.96 \\ \hline \end{array}$$

20. 
$$\begin{array}{r} 17.07 \\ - 0.02 \\ \hline \end{array}$$

21.  $6.7 - 2.4 = \underline{\hspace{2cm}}$

22.  $9.03 - 3.77 = \underline{\hspace{2cm}}$

23.  $7.6 - 2.07 = \underline{\hspace{2cm}}$

24.  $7.44 - 3.86 = \underline{\hspace{2cm}}$

25.  $8.5 - 3.08 = \underline{\hspace{2cm}}$

26.  $4.62 - 2.88 = \underline{\hspace{2cm}}$

**Solve.**

27. Christine buys a pair of socks for \$8.35. What is her change from a \$10 bill? \_\_\_\_\_

28. Mateo buys a pencil for \$0.35, a pen for \$2.75, and a ruler for \$4.36. What is his change from a \$20 bill? \_\_\_\_\_