

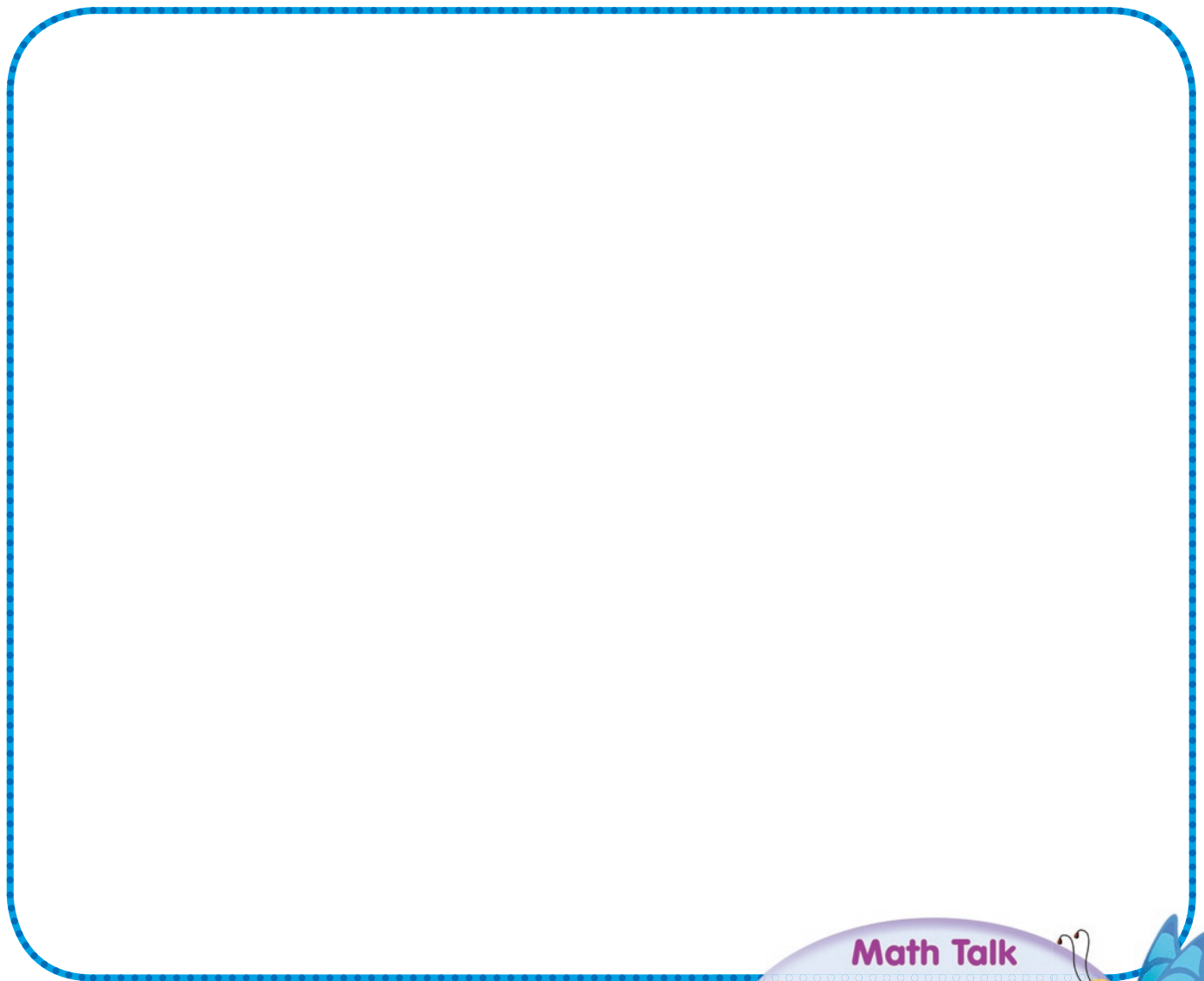
Name \_\_\_\_\_

## Equal Parts

**Essential Question** What are halves, thirds, and fourths of a whole?

### Listen and Draw

Put pattern blocks together to match the shape of the hexagon. Trace the shape you made.



**FOR THE TEACHER** • Have children place a yellow hexagon pattern block on the workspace and make the same shape by using any combination of pattern blocks. Discuss how they know if the outline of the blocks they used is the same shape as the yellow hexagon.

### Math Talk

**Describe** how the shapes you used are different from the shapes a classmate used.



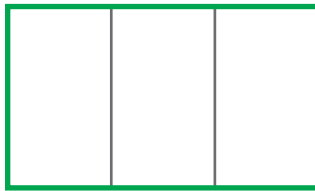
MATHEMATICAL PRACTICES

## Model and Draw

The green rectangle is the whole.  
It can be divided into equal parts.



There are 2 **halves**.  
Each part is a half.



There are 3 **thirds**.  
Each part is a third.

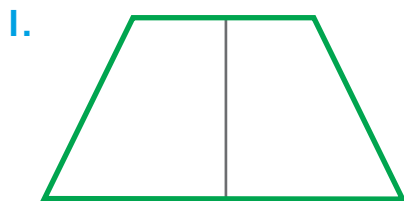


There are 4 **fourths**.  
Each part is a fourth.

## Share and Show



Write how many equal parts there are in the whole.  
Write **halves**, **thirds**, or **fourths** to name the equal parts.



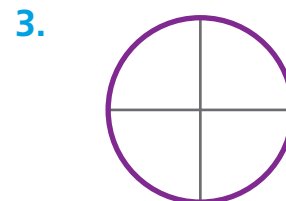
\_\_\_\_\_ equal parts

\_\_\_\_\_



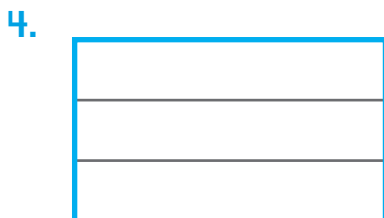
\_\_\_\_\_ equal parts

\_\_\_\_\_



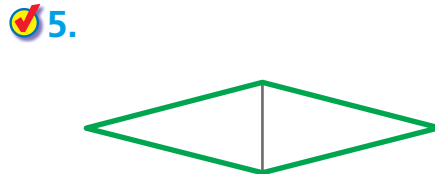
\_\_\_\_\_ equal parts

\_\_\_\_\_



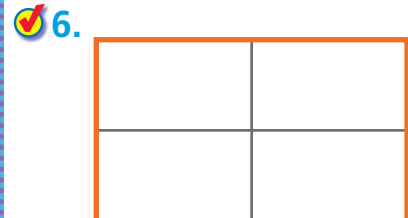
\_\_\_\_\_ equal parts

\_\_\_\_\_



\_\_\_\_\_ equal parts

\_\_\_\_\_



\_\_\_\_\_ equal parts

\_\_\_\_\_

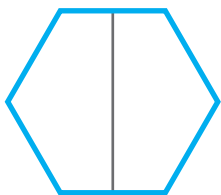
Name \_\_\_\_\_

## On Your Own

Write how many equal parts there are in the whole.

Write **halves**, **thirds**, or **fourths** to name the equal parts.

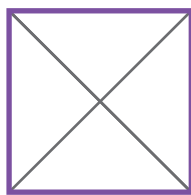
7.



\_\_\_\_\_ equal parts

\_\_\_\_\_

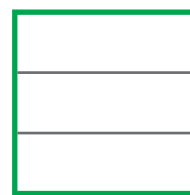
8.



\_\_\_\_\_ equal parts

\_\_\_\_\_

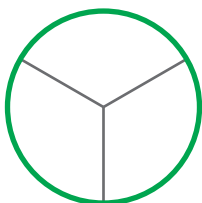
9.



\_\_\_\_\_ equal parts

\_\_\_\_\_

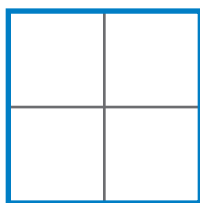
10.



\_\_\_\_\_ equal parts

\_\_\_\_\_

11.



\_\_\_\_\_ equal parts

\_\_\_\_\_

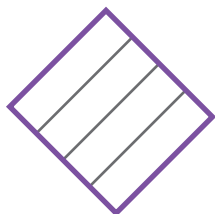
12.



\_\_\_\_\_ equal parts

\_\_\_\_\_

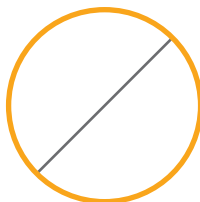
13.



\_\_\_\_\_ equal parts

\_\_\_\_\_

14.



\_\_\_\_\_ equal parts

\_\_\_\_\_

15.



\_\_\_\_\_ equal parts

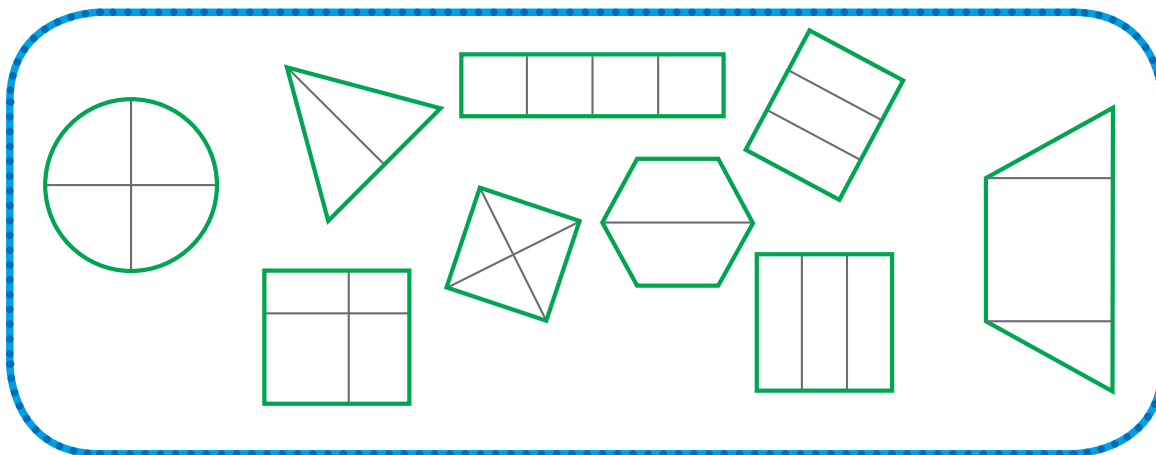
\_\_\_\_\_

# PROBLEM SOLVING



16. Sort the shapes.

- Draw an X on shapes that do **not** show equal parts.
- Use red to color the shapes that show thirds.
- Use blue to color the shapes that show fourths.



17.  Draw to show halves. Explain how you know that the parts are halves.

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18. **Test Prep** Which shape has parts that are fourths?



☐



☐



☐



☐



**TAKE HOME ACTIVITY** • Ask your child to fold one sheet of paper into halves and another sheet of paper into fourths.

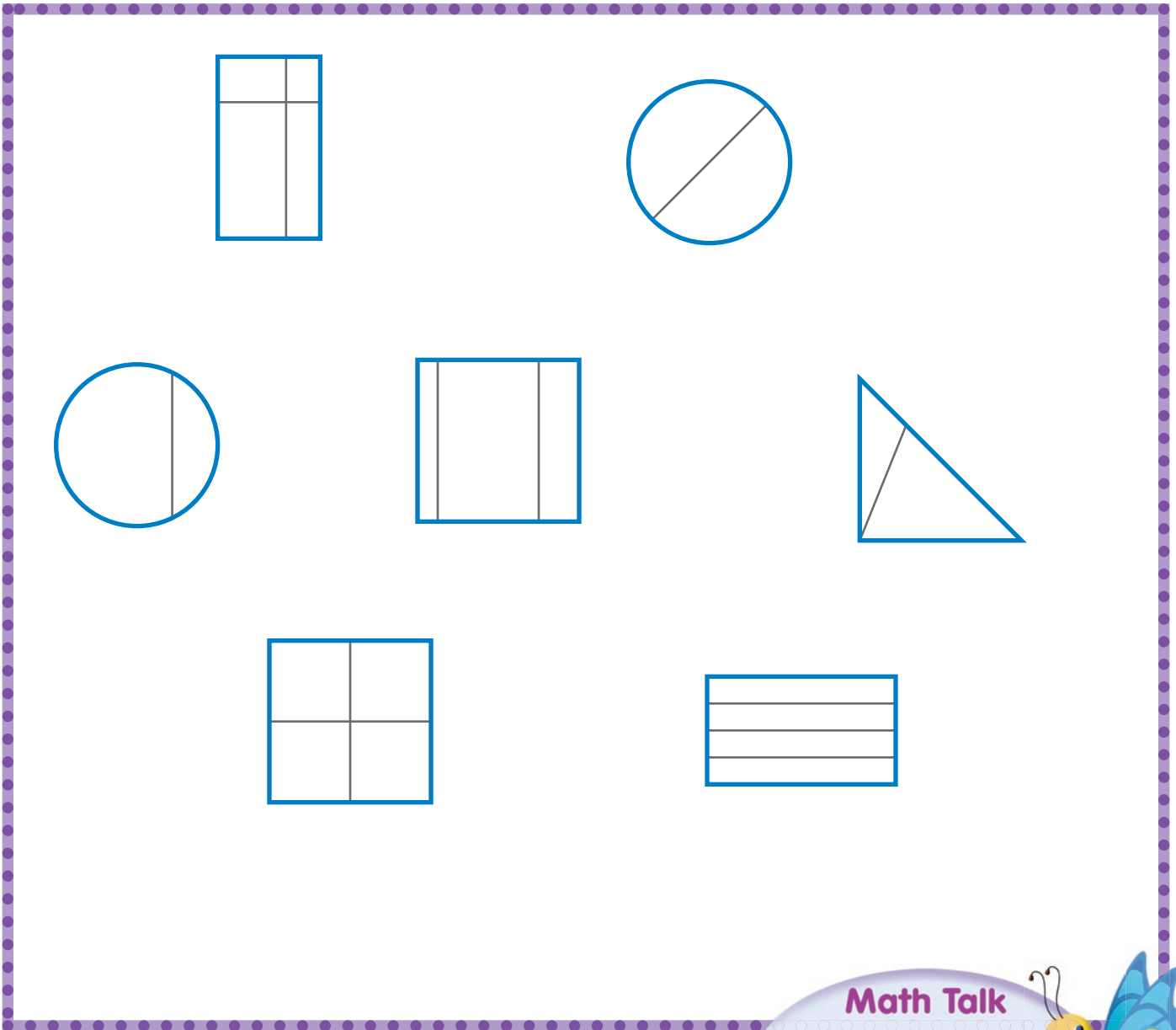
Name \_\_\_\_\_

# Show Equal Parts of a Whole

**Essential Question** How do you know if a shape shows halves, thirds, or fourths?

## Listen and Draw

Circle the shapes that show equal parts.



### Math Talk

Does the triangle show halves? **Explain.**



MATHEMATICAL PRACTICES

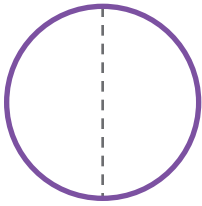


**HOME CONNECTION** • Your child completed this sorting activity with shapes to review the concept of equal parts.

## Model and Draw

You can draw to show equal parts of a whole.

halves  
2 equal parts



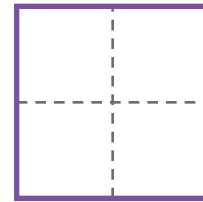
There are 2 halves  
in a whole.

thirds  
3 equal parts



There are 3 thirds  
in a whole.

fourths  
4 equal parts



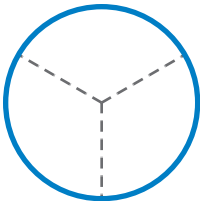
There are 4 fourths  
in a whole.

## Share and Show

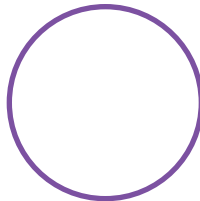


Draw to show equal parts.

1. thirds



2. halves



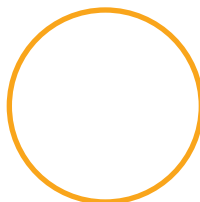
3. fourths



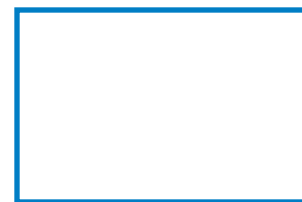
4. halves



5. fourths



6. thirds

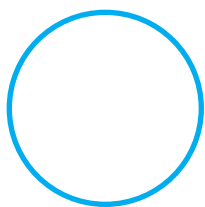


Name \_\_\_\_\_

## On Your Own

Draw to show equal parts.

7. halves



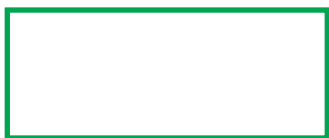
8. fourths



9. thirds



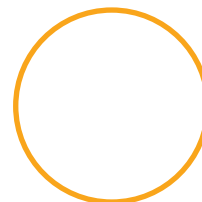
10. thirds



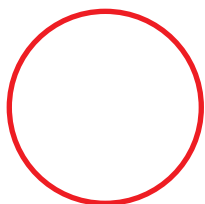
11. halves



12. fourths



13. halves



14. thirds



15. fourths



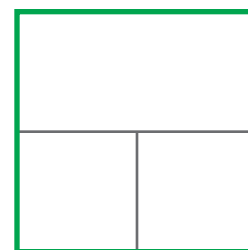
16. Does this shape show thirds?  
**Explain.**

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# PROBLEM SOLVING

REAL

WORLD

Write Math

Solve. Write or draw to explain.

17. Mrs. Blackwell has one muffin. She cuts the muffin into halves. How many pieces of muffin does she have?



\_\_\_\_\_ pieces

18. **H.O.T.** There are two square pizzas. Each pizza is cut into fourths. How many pieces of pizza are there?

\_\_\_\_\_ pieces

19. **Test Prep** A piece of ribbon is cut into thirds. How many pieces of ribbon are there?

- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 6



**TAKE HOME ACTIVITY** • Have your child explain how he or she solved Exercise 18.

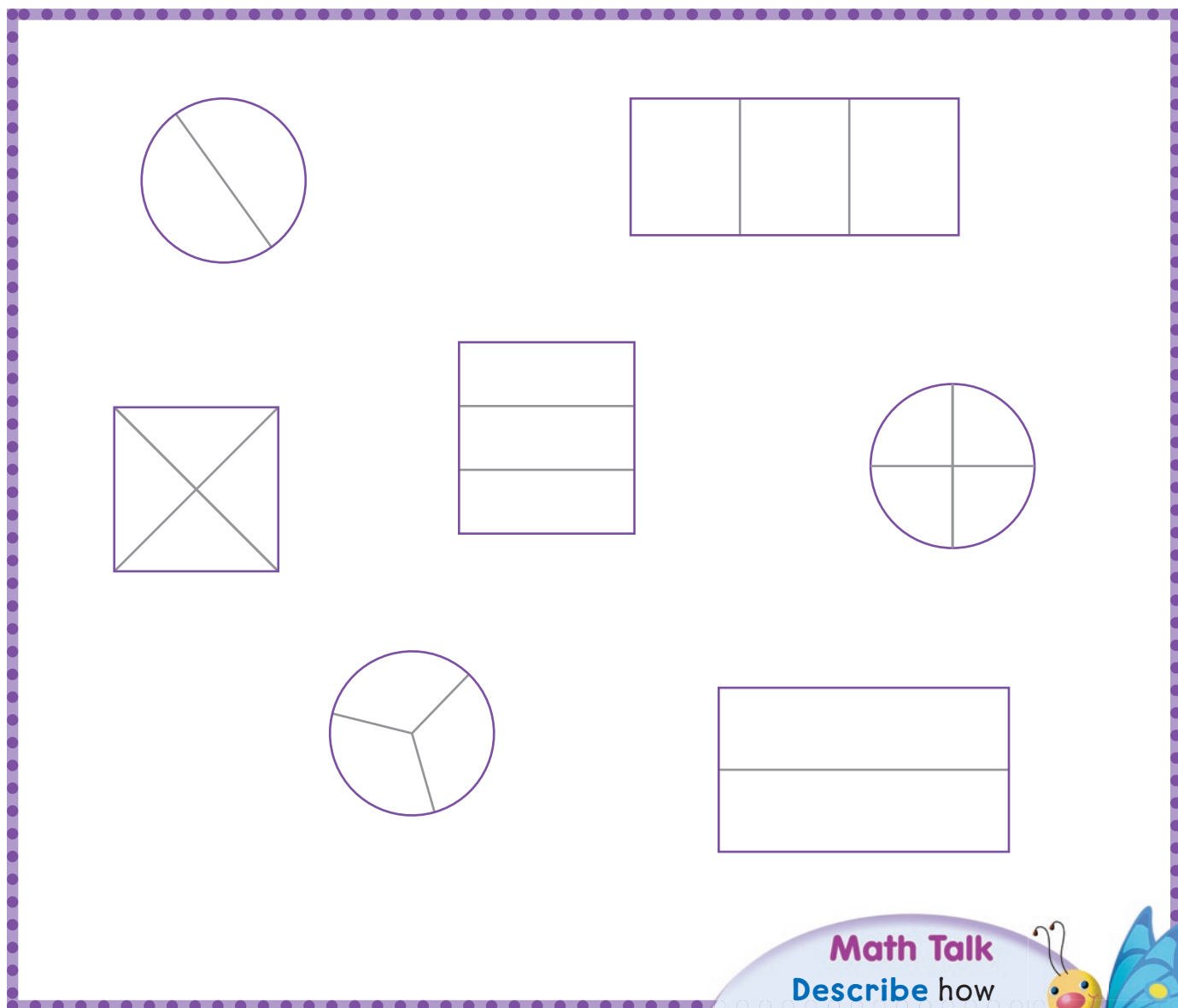
Name \_\_\_\_\_

# Describe Equal Parts

**Essential Question** How do you find a half of, a third of, or a fourth of a whole?

## Listen and Draw

Find shapes that show fourths and color them green.  
Find shapes that show halves and color them red.



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**HOME CONNECTION** • Your child identified the number of equal parts in shapes to review describing equal parts of a whole.

### Math Talk

**Describe** how the thirds in the unshaded shapes compare to each other.



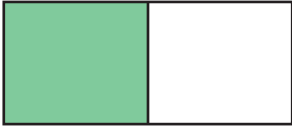
MATHEMATICAL PRACTICES

## Model and Draw

These are some ways to show and describe an equal part of a whole.

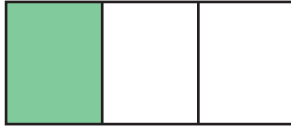
1 of 4 equal parts is called a **quarter of** that shape.

2 equal parts



A **half of** the shape is green.

3 equal parts



A **third of** the shape is green.

4 equal parts



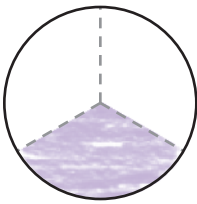
A **fourth of** the shape is green.

## Share and Show

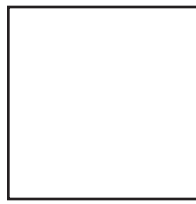


Draw to show thirds.  
Color a third of the shape.

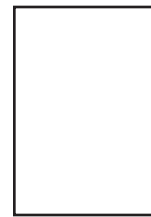
1.



2.

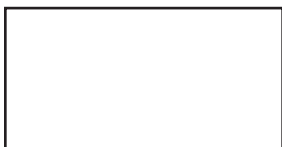


✓ 3.

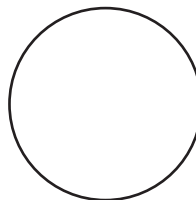


Draw to show fourths.  
Color a fourth of the shape.

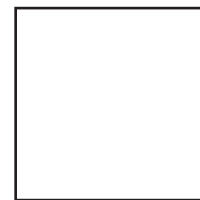
4.



5.



✓ 6.



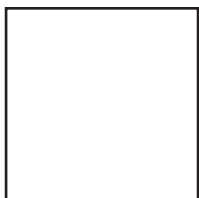
Name \_\_\_\_\_

## On Your Own

Draw to show halves.  
Color a half of the shape.



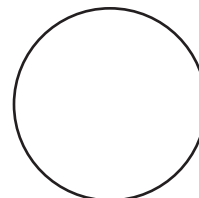
7.



8.



9.



Draw to show thirds.  
Color a third of the shape.

10.



11.

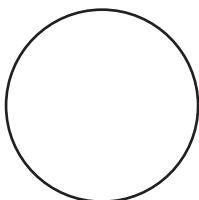


12.



Draw to show fourths.  
Color a fourth of the shape.

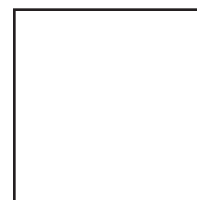
13.



14.



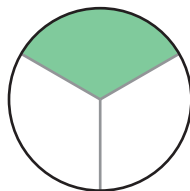
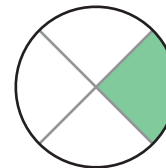
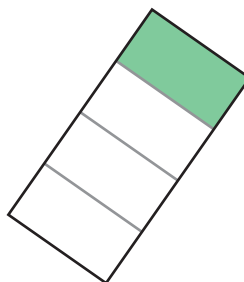
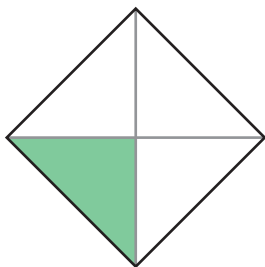
15.



# PROBLEM SOLVING

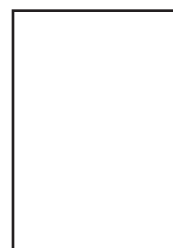


16. Circle all the shapes that have a quarter of the shape shaded.



17. **H.O.T.** Two posters are the same size. A third of one poster is red, and a fourth of the other poster is blue.

Is the red part or the blue part larger?  
Draw and write to explain.



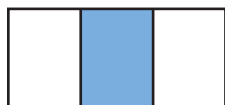

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18. **Test Prep** Which of these has a third of the shape shaded blue?



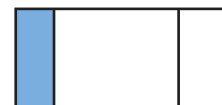
☐



☐



☐



☐



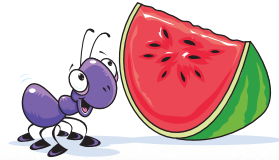
**TAKE HOME ACTIVITY** • Draw a square. Have your child draw to show thirds and color a third of the square.

Name \_\_\_\_\_

# Problem Solving • Equal Shares

**Essential Question** How can drawing a diagram help when solving problems about equal shares?

There are two sandwiches that are the same size. Each sandwich is divided into fourths, but the sandwiches are cut differently. How might the two sandwiches be cut?



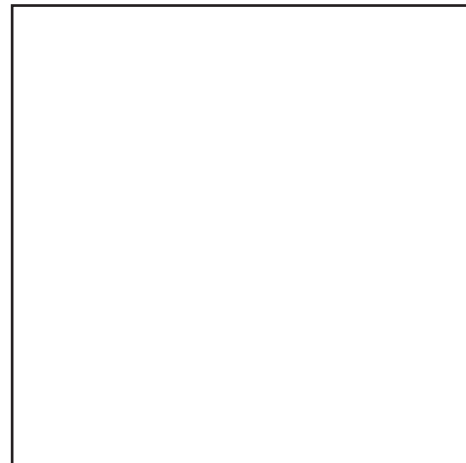
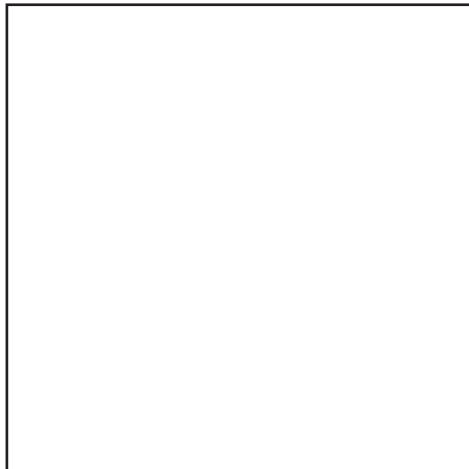
**What do I need to find?**

how the sandwiches  
could be cut

**What information do I need to use?**

There are \_\_\_\_\_ sandwiches.  
Each sandwich is divided  
into \_\_\_\_\_.

**Show how to solve the problem.**



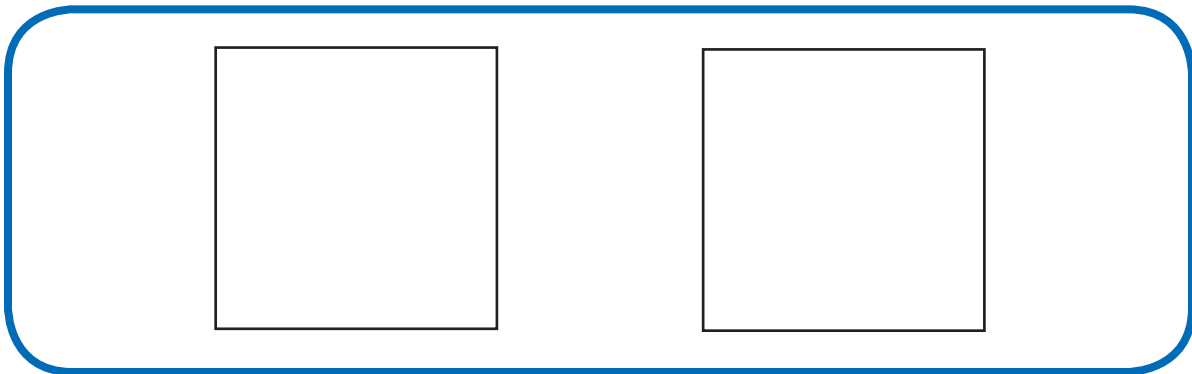
**HOME CONNECTION** • Your child drew a diagram to represent and solve a problem about dividing a whole in different ways to show equal shares.

## Try Another Problem

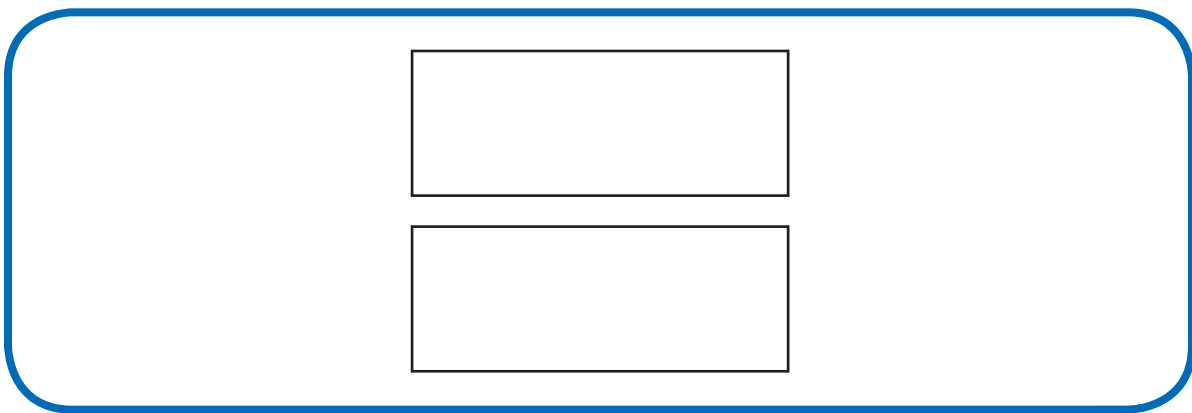
Draw to show your answer.

- What do I need to find?
- What information do I need to use?

1. Roger has two square sheets of paper that are the same size. He wants to cut each sheet into halves. What are two different ways he can cut the sheets of paper?



2. Dana has two pieces of cloth that are the same size. She needs to divide each piece into thirds. What are two different ways she can divide the pieces of cloth?



### Math Talk

In Problem 2, **explain** how a third of the two pieces of cloth are alike and how they are different.



MATHEMATICAL PRACTICES

Name \_\_\_\_\_

## Share and Show



Draw to show your answer.

3. Brandon has two pieces of toast that are the same size. What are two different ways he can divide the pieces of toast into halves?

4. Mr. Rivera has two small cakes that are the same size. What are two different ways he can cut the cakes into fourths?

5. Erin has two ribbons that are the same size. What are two different ways she can divide the ribbons into thirds?

# On Your Own

Solve. Write or draw to explain.



6. Patty has 75 beads in a box. 28 beads are red and the rest are blue. How many blue beads does Patty have?



\_\_\_\_\_ blue beads

7. **H.O.T.** Dave has only quarters and dimes. He has the same number of quarters as dimes. The total value of his coins is 70¢. What coins does Dave have?



\_\_\_\_\_ quarters

\_\_\_\_\_ dimes

8. **Test Prep** Emma cuts a piece of paper into fourths like this.



Which of the following shows another way to cut the paper into fourths?



☐



☐



☐



☐



**TAKE HOME ACTIVITY** • Ask your child to draw two rectangles and show two different ways to divide them into fourths.

Name \_\_\_\_\_



## Chapter 11 Review/Test

### Vocabulary

Use a word in the box to complete each sentence.

|           |
|-----------|
| third of  |
| fourth of |
| sphere    |
| pentagon  |

1. A basketball has the shape of

a \_\_\_\_\_. (p. 510)

2. A \_\_\_\_\_ has 5 sides and 5 angles. (p. 518)

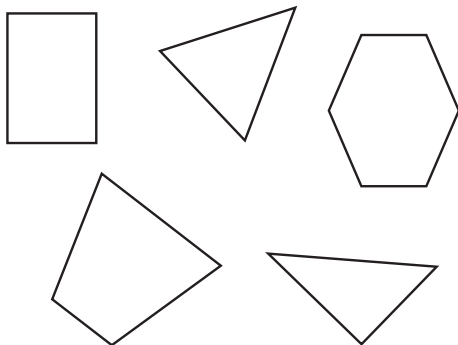
3. One of three equal parts of a shape is

a \_\_\_\_\_ the shape. (p. 542)

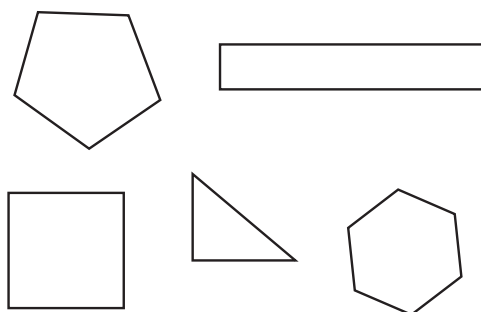
### Concepts and Skills

Circle the shapes that match the rule.

4. Shapes with more than 3 angles



5. Shapes with fewer than 5 sides

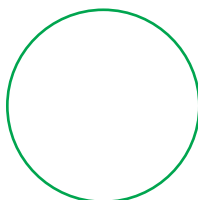


Draw to show equal parts.

6. thirds



7. halves

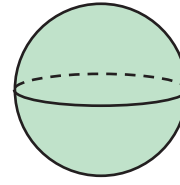
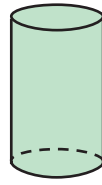
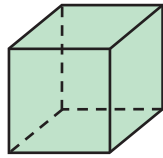
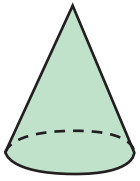


8. fourths



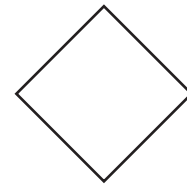
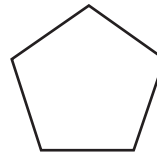
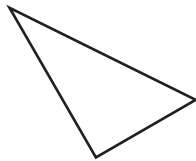
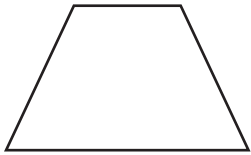
Fill in the bubble for the correct answer choice.

9. Which of these shapes is a cube?



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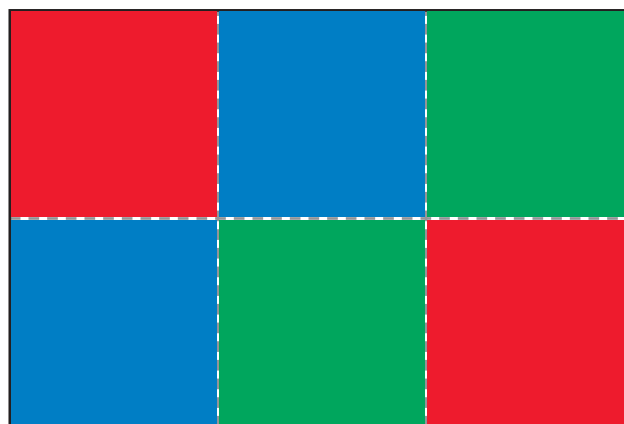
10. Which of these shapes has 5 angles?



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11. Max used square color tiles to cover this rectangle.  
How many square color tiles did he use to cover  
the rectangle?

- ☐ 2
- ☐ 4
- ☐ 6
- ☐ 8

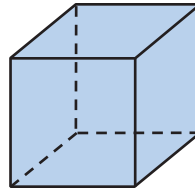


Name \_\_\_\_\_

Fill in the bubble for the correct answer choice.

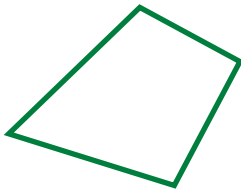
12. How many faces does a cube have?

- ☐ 2
- ☐ 4
- ☐ 6
- ☐ 8



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13. James drew a shape that has 4 sides and 4 angles. What is this shape called?



- ☐ triangle
- ☐ quadrilateral
- ☐ hexagon
- ☐ pentagon

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14. There is one pizza. If the pizza is cut into fourths, how many pieces of pizza will there be?

- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5



## Constructed Response

15. Reggie makes a pentagon and a quadrilateral with toothpicks. He uses one toothpick for each side of a shape. How many toothpicks does he use?

Draw or write to explain your answer.

\_\_\_\_\_ toothpicks

## Performance Task

16. Keira has two poster boards that are the same size. She wants to divide each poster board into fourths. What are two different ways that she can divide the poster boards into fourths?

Suppose Keira also has a banner that she wants to divide into thirds. Describe what she should do.

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