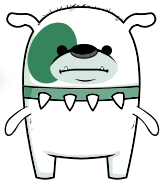
Understand

Halves, Thirds, and Fourths in Shapes

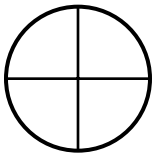
Name: _____

Prerequisite: How can you break shapes into equal parts?



Study the example showing how to draw equal parts. Then solve Problems 1–8.

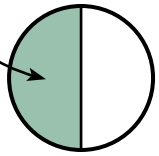
Draw 4 equal parts. Circle the word that describes the parts.



halves

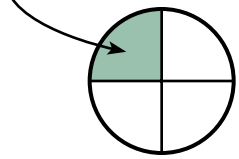
(fourths)

half of the whole



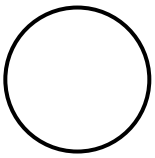
2 equal parts

fourth of the whole



4 equal parts

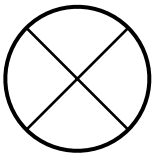
1 Draw 2 equal parts. Circle the word that describes the parts.



halves

fourths

2 Write how many equal parts. Circle the word that describes the parts.

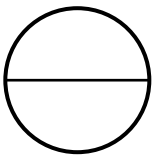


halves

fourths

_____ equal parts

3 Write how many equal parts. Circle the word that describes the parts.



halves

fourths

_____ equal parts

Solve.

4 Draw 2 equal parts. Circle the word that describes the parts.

halves

fourths

5 Draw 4 equal parts. Circle the word that describes the parts.

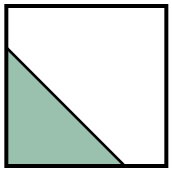
halves

fourths

6 Draw 2 equal parts a different way than you did in Problem 4.

7 Draw 4 equal parts a different way than you did in Problem 5.

8 Vicky says she shaded half of this square. Do you agree? Why or why not?



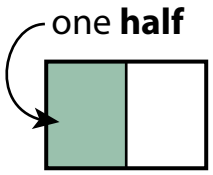
Name: _____

Divide Rectangles into Halves, Thirds, and Fourths

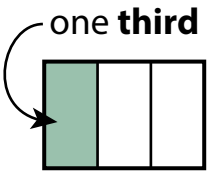
Study the example showing how to divide a rectangle into equal parts. Then solve Problems 1–9.

Example

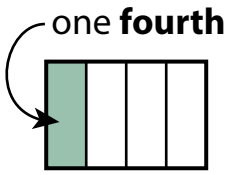
Divide this rectangle into equal parts.



2 equal parts



3 equal parts



4 equal parts

1 Divide this rectangle into two equal parts.

2 Circle the word to the right that makes this sentence true about the rectangle in Problem 1.

Each part is a _____ of the whole rectangle.

half

third

fourth

3 Show another way to divide a rectangle into two equal parts.

Solve.

4 Divide this rectangle into three equal parts.

5 Circle the word to the right that makes this sentence true about the rectangle in Problem 4.

Each part is a _____ of the whole rectangle.

half

third

fourth

6 Show another way to divide a rectangle into three equal parts.

7 Divide this rectangle into four equal parts.

8 Circle the word to the right that makes this sentence true about the rectangle in Problem 7.

Each part is a _____ of the whole rectangle.

half

third

fourth

9 Show another way to divide a rectangle into four equal parts.

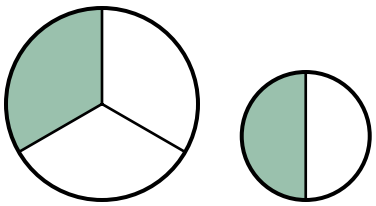
Name: _____

Reason and Write

Look at the example. Underline a part that you think makes it a good answer.

Example

Cho drew these circles.



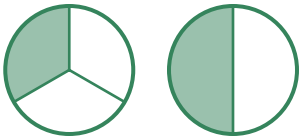
Cho wrote, My picture shows that a pie cut in thirds has bigger pieces than the same pie cut in half.

What did Cho do right? What did he do wrong? Use pictures, words, or numbers to explain.

Cho showed thirds and halves correctly. The first circle is divided into 3 equal parts. The second circle is divided into 2 equal parts.

Cho's mistake was that he drew the circles different sizes. He should have drawn the circles the same size. That is because he is trying to show the same pie cut two different ways.

Cho should have drawn his circles like this. Then he would see that a pie cut in thirds has smaller pieces than the same pie cut in half.

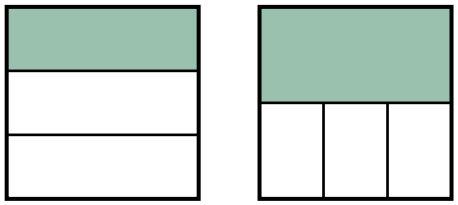


Where does the example . . .

- answer both parts of the question?
- use words to explain?
- use numbers to explain?
- use a picture to explain?

Solve the problem. Use what you learned from the example.

Alma drew these squares.



Alma wrote, My picture shows that a cracker broken into thirds has smaller pieces than the same cracker broken into fourths.

What did Alma do right? What did she do wrong?

Show your work. Use pictures, words, or numbers to explain.

Did you . . .

- answer both parts of the question?
- use words to explain?
- use numbers to explain?
- use a picture to explain?