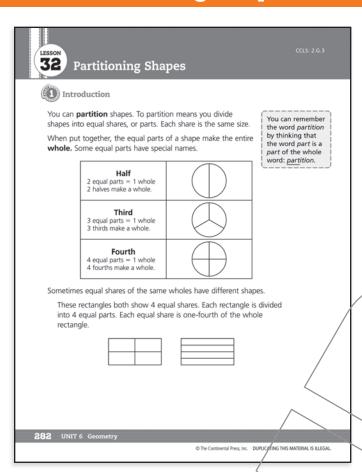
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Objective

To partition shapes into halves, thirds, and fourths

1

Introduction

Tell students that they can partition figures into equal parts. The equal parts have special names, depending on how many parts they make. Discuss the examples of halves, thirds, and fourths. Then look at the two ways to make fourths in a rectangle. Tell students that there is often more than one way to partition shapes.

When have you had to make equal shares of something? How did you make each part equal? Partition a rectangle into equal parts. Equal parts are the same size. Mrs. Turner is decorating a bulletin board. She wants to partition it into thirds. How can she divide it? Think about what thirds means. How many equal parts will there be? Draw lines to partition the first rectangle into this number of equal parts. Dravylines to partition the second rectangle into this number of equal parts in a different way. How many equal parts did you make in each rectangle? Do the equal parts in the first rectangle look the same as the equal parts in the second rectangle?

Think About It

Think About It



Students should recognize times that they may need to partition things, such as when they split a candy bar with their brother or sister.

Common Core Learning Standard

2.G.3 Partition circles and rectangles into two, three, or four equal shares, describe the shares using the words *halves, thirds, half of, a third of,* etc., and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape.

Vocabulary

partition: to divide a plane figure into smaller

pieces

whole: entire shape

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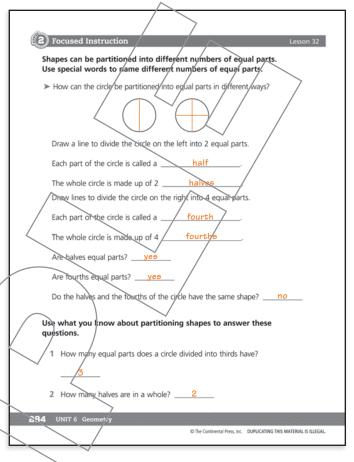


2 Focused Instruction

First, students will partition a rectangle into thirds in two different ways. Students should recognize that they can often partition shapes in more than one way. They must also recognize that thirds means they are partitioning the rectangle into three equal pieces.

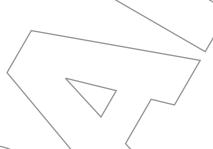
Next, students will identify parts of a circle as halves or fourths. Students should recognize that a whole is two halves or four fourths and that the pieces must be the same size.

Conclude the Focused Instruction section by having students answer two questions about partitioning shapes.



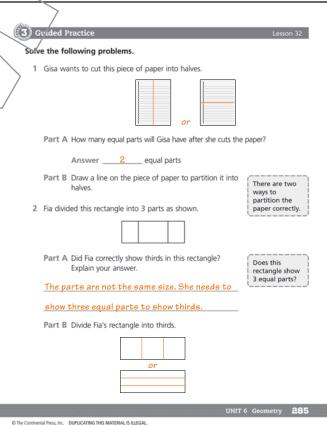
Guided Practice

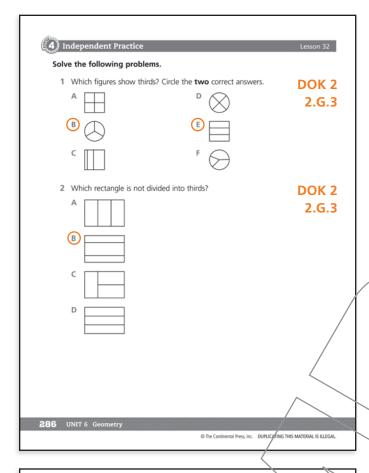
Students should complete the Guided Practice section on their own. Offer assistance as needed, pointing out the reminder and hint boxes along the right side of the page.



Connections to Standards for **Mathematical Practice**

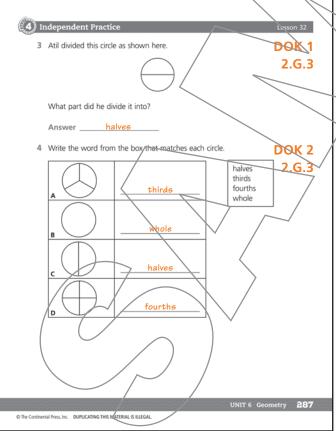
- Reason abstractly and quantitatively.
- Model with mathematics.
- Use appropriate tools strategically.
- Attend to precision.
- Look for and make use of structure.





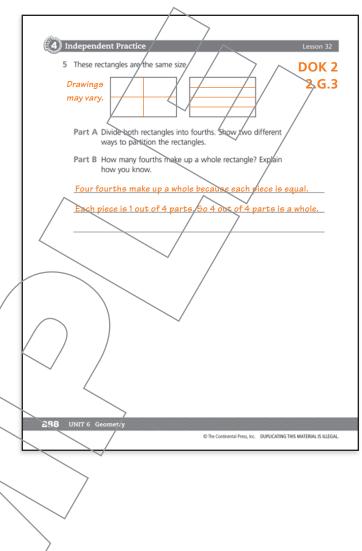


- 1 A shape is divided into thirds when it is shown to have three equal parts. Choice B is correct because the circle shows three equal parts, or thirds. Choice E is also correct because the square is partitioned into thirds. Choices A and D are incorrect because the shapes are divided into four equal parts, or fourths. Choices C and F are incorrect because the three parts are not equal.
- A shape is divided into thirds when it is shown to have three equal parts. Choice B is correct because the three parts are not equal sizes. In choices A, C, and D, the rectangles are correctly partitioned into thirds because the three parts in each rectangle are equal to each other.



- 3 The circle is divided into two equal parts. Two equal parts are halves of a figure, so Atil divided the circle in half, or into halves.
- Count the parts that each circle is split into, and find the correct name for the number of parts. Circle A is partitioned into three equal parts, or thirds. Circle B is not split into any parts, so it shows a whole. Circle C is portioned into two equal parts, or halves. Circle D is partitioned into four equal parts, or fourths.

5 PARTS A AND B In order to divide each rectangle into fourths, the rectangle needs to be split into four equal parts. There are several ways to divide the rectangles into fourths, including making three equally-spaced horizontal lines, three equally-spaced vertical lines, or using a vertical line and a horizontal line to create two rows of two equal shapes. Four fourths make up the entire rectangle.



Extension Activity

Give each student three rectangular pieces of paper. Have them divide one into halves, one into thirds, and one into fourths. Direct them to label the one part of each rectangle with the appropriate word.