

<b>Grade 1</b>	<b>Lesson: 16-3</b> <b>Making Halves and Fourths of Rectangles and Circles</b>	Reference to English
<b>Math Standard(s): 1.G.3</b>		<b>Domain: Geometry</b>
<b>Content Objective(s):</b>		<b>Language Objective(s):</b>
Children will identify halves and fourths of circles and rectangles. 我会认出和用小组写下算式的部分来做出加法问题。		Students will speak the words inside, outside and in all while adding parts. 我在相加部分时会说 里面, 外面 和 一共。
<b>Essential Understanding:</b> Shapes can be divided into equal parts called halves and quarters or fourths		<b>Academic Vocabulary:</b> <b>Listen:</b> <b>Read:</b> <b>Write:</b> <b>Speak:</b> <b>Sentence Frame:</b>
<b>Materials:</b> <ul style="list-style-type: none"> <li>• 4 square white pieces of paper per child</li> <li>• crayons</li> <li>• paste</li> </ul>		<b>Language and Word Wall:</b> 一半, 四分之一, 二分之一, 两个, 四个
<b>Lesson:</b>		<b>Instructional Time: 25 minutes</b>

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### Opening: (3 minutes)

T: “你已经学习到怎么做出和描述一个物体或形状的相等部分。今天你会学习怎么把形状折成一半或四分之一，而且你也会学习怎么来描述这些形状。”

- Draw a circle on the board. Draw a line to divide the circle into two obviously not equal parts.

T: “我把这个圆形分成两个相等部分吗？”

S: will respond with “no”

T: “没错，这2个部分不是相等的。我再来试一次。(divide the circle into equal parts) 现在圆形被分成2个相等的部分吗？”

S: will respond with “yes”

### Introduction to New Material (Direct Instruction): (3 minutes)

- Pass out white boards, markers and erasers.

T: “一个形状被分成2个相等部分时，这就代表他们被分成一半。就像这个圆形一样。我要你们在白板上画一个被分一半的正方形。”

S: will draw a square divided in half.

- Repeat this with other shapes.

T: “现在我要你画一个正方形然后把它分成4个相等部分。”

S: will draw a square divided into 4 equal parts.

T: “你把东西分成4个相等部分时，这就叫做四分之一。画一个圆形然后把它分成四等分。”

S: will draw a circle divided in fourths and show the teacher.”

T: “很好，你们画的就像我画的一样。”

- Repeat this with other shapes.

### Guided Practice: (8 minutes)

Use the modeling cycle:

Teacher Does:

T: “现在换你了。你们要两个人一起合作。每组会拿到2张纸。你们要把一张纸折成一半然后把另一张折成四分之一。”

- Teacher will hand out the papers to the partnerships.

1 Student Does with Teacher:

T: “我需要学生的帮忙。”

- Teacher will choose a student.

T: “这里有一张纸。我需要你帮我把它折成一半或2个相等部分。”

S: will fold the paper in 1/2 .

T: “你们有把它折成一半吗 (ask the class)?”

S: will respond.

T: “现在把一半涂上红色。”

S: will start coloring  $\frac{1}{2}$  of the paper red.

T: “很好，我把 $\frac{1}{2}$ 涂上红色，另一半是什么颜色的？”

S: will respond, “green”

T: “对，另一半是绿色的。你可以说：1/2的纸是绿色的然后另一半是红色的吗？”

S: will say, “half of the paper is green and half of the paper is red.”

All Students Do:

T: “现在换你们了。你们要把第一张纸折成 $\frac{1}{2}$ 然后把2半涂上不同的颜色。你会把另一张纸折成四分之一然后把每个部分涂上不一样的颜色。记得告诉你的同学有一半的纸是\_\_\_色的然后另一半是\_\_\_色的或 $\frac{1}{4}$ 的纸是\_\_\_色的，还有 $\frac{1}{4}$ 的纸是\_\_\_色的，另一个 $\frac{1}{4}$ 的纸是\_\_\_色的，然后最后一个 $\frac{1}{4}$ 的纸是\_\_\_色的。”

S: will start the activity.

- Teacher will walk around the room. Remind students to say, “\_\_\_ out of \_\_\_ equal parts.”

- After 5 minutes bring the students back together through an attention getting strategy.

### Practice: (5 minutes)

- Have the students at their desks.

T: “今天我们会一起坐第 1,3,5 和 7 题。”

T: “我会把题目念出来然后你会圈出答案。圈出有四分之一是蓝色的形状。”

S: will circle the two shapes that have one quarter shaded blue.

T: “看第一个形状，有几个部分是蓝色的？跟我一起数1,2. 有几个是蓝色的？”

S: will respond. “2”

Assessment:

Guided Practice

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