

# Math Lesson

Lesson Title: Cut the Shapes Grade: Second
Content Standard: 2G3 Partition circle and rectangles into 2, 3, or 4 equal shares. Describe the shares using the words halves, thirds or fourths or quarters, and use the phrases, half of, third of, or fourth of and quarter of. Describe the whole as two halves, three thirds or four fourths in real-world context. Recognize that equal shares of identical wholes need not have the same shape.
Materials: Circle, rectangle and square pieces of paper, scissors, glue
Shared Experience and procedure details: Set up: Teacher will have scissors and glue on the tables ready to use. If using circles or squares, cut the paper ahead of time.  Activity: Students will work in groups of 2. They will be given two pieces of paper (exactly the same size and shape). They will be instructed to fold the paper in half but they must fold their paper a different way than their partner folds their's. Once they have both pieces folded, they check in with the teacher. They will then be able to cut their paper to share with their partner. After cutting, each child will be given one of each color paper (halves in two different ways). Pose the question: Which one is bigger? Discuss answers. Ask the students to prove their guess by placing the pieces on top of each other. Tell them that they can cut ONLY one of the pieces. Distribute the 5-step papers and begin pictorial representations.  Repeat the activity on another day with 4 students in each group and 3 squares.
Possible Picture: both halves, scissors, cutting the pieces, putting the puzzle together,
Possible People Talk: My partner and I cut shapes into (halves or fourths). We guessed which one was bigger and then we had to prove our estimate.
Feature Talk: halves, fourths, cut, fold, same, shape, equal, bigger,
Possible Symbolic Representation: $\frac{1}{2} = \frac{1}{2}$ $\frac{1}{2} + \frac{1}{2} = 1$ $\frac{1}{4} = \frac{1}{4}$ $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = 1$
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