

Picture Pie
by Ed Emberley

Parts of the Lesson	Materials Needed
<p>I. Pre-activity: $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{1}{8}$ of a circle</p> <p>-Demonstrate cutting circles into halves, then fourths, then eighths. Discuss how many halves make a whole, how many fourths make a half, how many eighths make a fourth, etc.</p> <p>-Play Fraction Circle game, rolling a handmade die and coloring in the resulting fraction. Die should have sides that say $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$.</p>	<p>I. Pre-activity: $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{1}{8}$ of a circle</p> <p>-<u>3 large circles</u> - one to cut into halves, another into fourths, another into eighths</p> <p>- <u>Fraction dice</u> (one for each pair of children, or for a parent and child working together). Use 1 in cubes and label with a black Sharpie® pen.</p> <p>-<u>"Game board"</u> for each pair of players, consisting of 3-4 circles divided into eighths. (You can use the top of Funbook page 20.) A different color crayon for each player, to color in fraction rolled.</p>
<p>II. Read the book (Talking points)</p> <p>-This isn't really a story book. It is a book by a man who likes to show children how to do art. Read a few pages to establish that all pix are made using halves, fourths and eighths of circles. Wow, nifty!</p>	<p>II. Read the book.</p> <p>At least one copy of <u>the book</u> to show the nifty illustrations.</p>
<p>III. Do the math (Activities)</p> <p>-Have children make pictures from the book, using brightly colored pre-cut halves, fourths, and eighths of circles. A nifty idea is to make the fish on dark blue paper (the very big fish could be a class project, too big for one child). Use a sequin for an eye. (Display fish papers on a bulletin board. It looks like an aquarium!)</p>	<p>III. For the activities</p> <p>-<u>Precut halves, fourths and eighths</u> of circles, photocopied on brightly colored paper.</p> <p>-For fish: sheets of <u>dark blue paper</u> for each child; <u>gluesticks</u>; <u>sequins</u> for fish eyes.</p> <p>[Leave book and extra circle parts at a center, for children to create other pictures in spare time.]</p>
<p>IV. Wrap Up (Debrief)</p> <p>-Tell how many halves, fourths, and eighths they used. (Older kids add fractions to get value of their fish.)</p>	<p>IV. Wrap Up</p> <p>-(optional) Use <u>goldfish crackers</u> to introduce the idea of fractional parts of a set, e.g. $\frac{1}{2}$ of 10; $\frac{1}{4}$ of 12.</p>

