

Fraction Parts of a Circle

Planning Your Time		
Intro & Demo 15 min	Activity 20 min	Sum It Up 5 min
		

Objective

Identify proper fractions.

Materials

- Deluxe Rainbow Fraction Circles
- Overhead Deluxe Rainbow Fraction Circles
- Fraction Dice

Grouping

Whole class, then small groups

Open It Up

Draw a circle on the board. Tell students it is a pizza. Divide the circle into 8 equal parts.

Ask: Who can show $\frac{5}{8}$ of the pizza left over?

[A student shades 5 pieces of pizza.]

How many pieces are left to eat? [5]

What fraction part of the pizza is left? [$\frac{3}{8}$]

How many pieces are eaten? [3]

What fraction part of the pizza was eaten? [$\frac{3}{8}$]

Demonstrate & Discuss

Distribute sets of fraction circles to students. Have them work along with you in small groups as you model the lesson.

Say: Use the two pink fraction circle pieces flat sides together to trace a circle on your paper. Take one piece off and draw the line that separates the circle into 2 pieces.

Ask: What fraction of the circle is each piece? [$\frac{1}{2}$]

Say: Find the blue fraction circle pieces and ask how many of them there are. [8]

Place all the blue pieces on the circle. Ask what fraction of the circle is each piece. [$\frac{1}{8}$]

Now show $\frac{3}{8}$ of the circle using the blue pieces. Trace around the 3 blue pieces and color them blue. Label each part. Ask how you write the fraction three-eighths. [$\frac{3}{8}$]

Review how a fraction is written.

unit fraction proper fraction

1 3 ← *numerator* blue parts

8 8 ← *denominator* total parts

Student Activity

Prepare ahead: Each small group will need a set of fraction circles.

Suggest that each student work on a different problem at a time so they don't have to wait for one another to use a particular set of fraction circle pieces to complete the problems. First students are to model the given fraction in each problem and then draw and color the model on each circle outline.

Informal Assessment

Observe the students as they complete the problems.

Ask: How do you know you are using the correct color fraction pieces to model and draw the given fraction? How can you check to make sure? [If the fraction is $\frac{2}{4}$, I use 2 of the 4 yellow fraction pieces. It's the correct color because the 4 yellow fraction pieces cover the whole circle.] /COMPREHENSION/

Sum It Up

Say: Today we used fraction models to show proper fractions.

Ask: How can you draw the fraction $\frac{2}{6}$? [Divide a circle into 6 equal parts. Then shade or color 4 of the parts.] /GENERALIZE/

More Practice

Materials: Deluxe Rainbow Fraction Circles, fraction dice (green)

Have students trace a fraction circle on their paper. Each student tosses a die and then models the fraction with the fraction circle pieces on the circle.

Literature Connection

Apple Fractions by Jerry Pallotta (Scholastic, 2002.)

Revisit the first 16 pages of this storybook, this time focusing on proper fractions $\frac{1}{2}$, $\frac{1}{4}$, and $\frac{3}{4}$. Have students model unit and proper fractions with fraction circle pieces.