



Materials List

Personal white boards

(T) 1 - clear plastic cup full of colored water, 2 - other identical clear plastic cups (empty), 2 - 12" x 1" strips of construction paper, 12 -inch ruler

Eureka Math

3rd Grade Module 5 Lesson 1

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Directions for customizing presentations are available on the next slide.



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Reflecting your Teaching Style and Learning Needs of Your Students

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Screen A

ReadyGEN™ in Action

3rd Grade
Unit 3, Module A
Lesson 1

“pop-out”

Screen B

Gr3(2) U3MAL1 Sample Lesson.pptx

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ReadyGEN™ in Action

3rd Grade
Unit 3, Module A
Lesson 1

Icons



Read, Draw, Write



Learning Target



Personal White Board



Problem Set



Manipulatives Needed



Fluency



Think Pair Share



Whole Class



Individual



Partner



Small Group



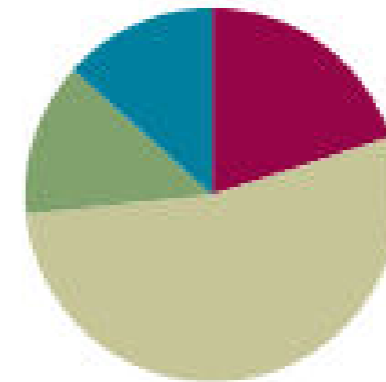
Small Group Time

Lesson 1

Objective: Specify and partition a whole into equal parts, identifying and counting unit fractions using concrete models.

Suggested Lesson Structure

■ Fluency Practice	(12 minutes)
■ Application Problem	(8 minutes)
■ Concept Development	(32 minutes)
■ Student Debrief	(8 minutes)
Total Time	(60 minutes)



Fluency Practice (12 minutes)

- Group Counting **3.OA.1** (6 minutes)
- Multiplication by Four and Eight **3.OA.4** (6 minutes)



I can break apart a whole into fractional units.



Fluency Practice

Group Counting

**Count forward and backward as I indicate
with pointing my finger, by...**

Fours to 40



Fluency Practice

Group Counting

**Count forward and backward as I indicate
with pointing my finger, by...**

Eights to 80



Fluency Practice

Group Counting

$2 \times 4 =$

$3 \times 4 =$

$4 \times 4 =$

$2 \times 8 =$

$3 \times 8 =$

$4 \times 8 =$



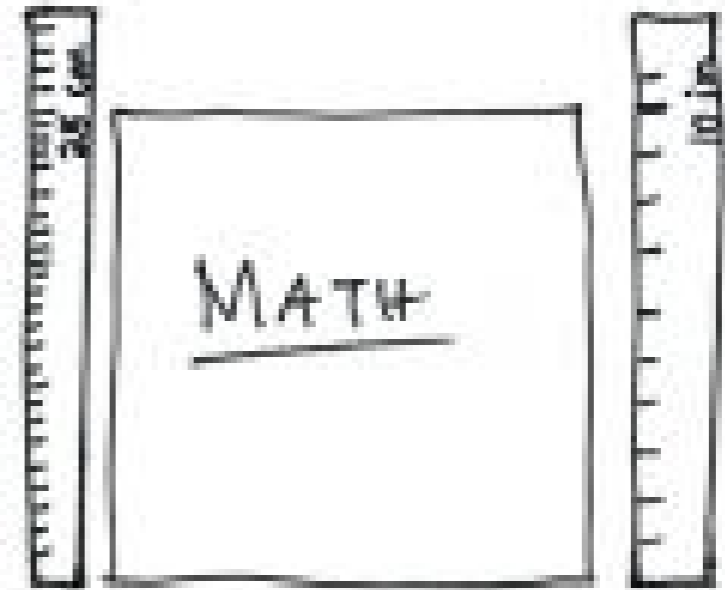
Application Problem

Measure the length of your paper or math book using a ruler. Your teacher will tell you whether to measure in inches or centimeters.



Application Problem

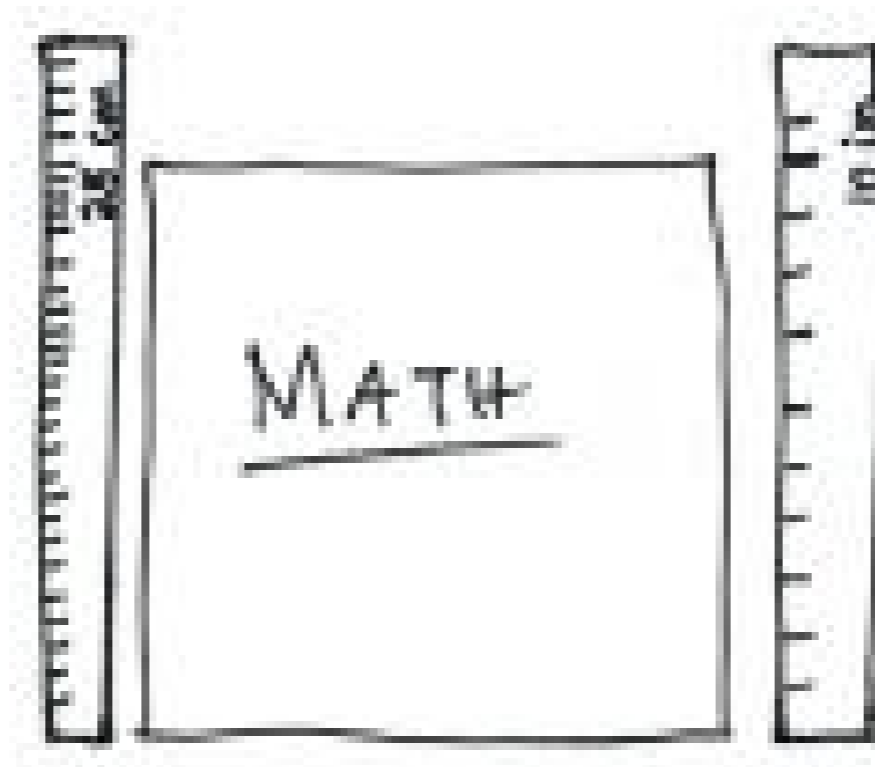
- a. Which is a larger unit - an inch or a centimeter?
- a. Which would yield (give) a greater number when measuring the book - inches or centimeters?
- a. Measure at least 2 different items with your partner, again using different units. What do you notice?





Application Problem

Change units with your partner. Measure different items again.





Concept Development

Measure your paper strips using inches.

How long is it?



Concept Development

Make a small mark at 6 inches at both the top and the bottom of the strip. Connect the two points with a straight line.

How many equal parts have I split the paper into now?



Concept Development

The fractional unit for 2 equal parts is halves.

What fraction of the whole strip is one of the parts?



Concept Development

Point to the halves and count them with me.

Discuss with your partner - How do we know these parts are equal?



Concept Development

Make a small mark at 3 inches and 9 inches at both the top and the bottom of the strip.

Connect the two points with a straight line.

How many equal parts do you have now?



Concept Development

The fractional unit for 4 equal parts is fourths.

Count the fourths.

Discuss with your partner how you know that these parts are equal.



Concept Development

Make a small mark at 4 inches and 8 inches at both the top and the bottom of the strip. Connect the two points with a straight line.

What is the fractional unit?

Count the equal parts.



Concept Development

Make a small mark at 2 inches, 6 inches and 10 inches at both the top and the bottom of the strip. Connect the two points with a straight line.

What is the fractional unit?

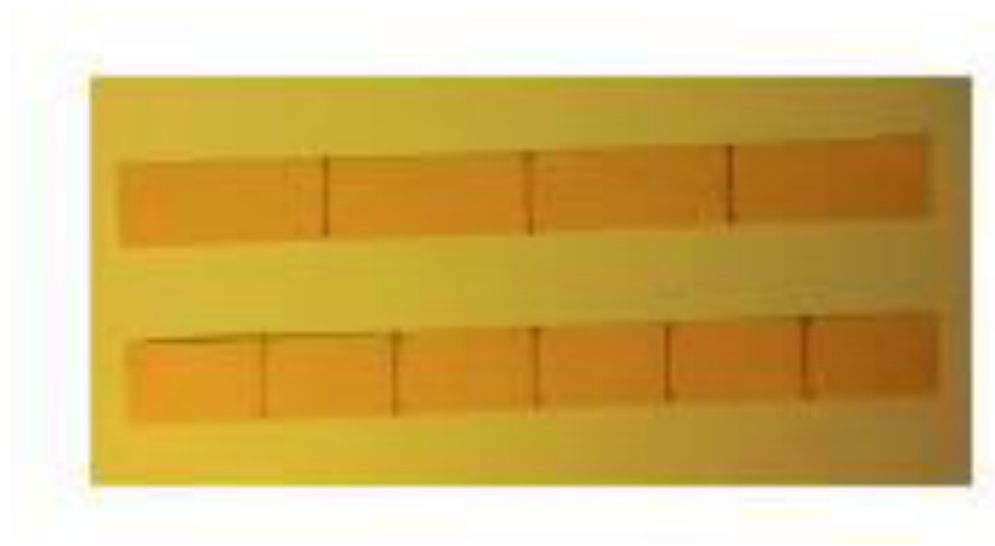
Count the equal parts.



Concept Development

Talk to your partner:

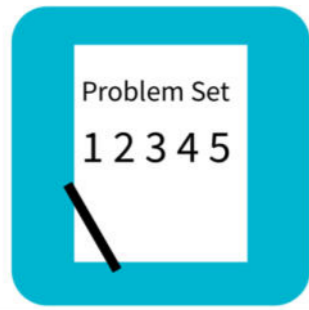
What is the relationship between thirds and sixths?





Concept Development

Part 2: Partitioning a whole amount of liquid into equal parts.

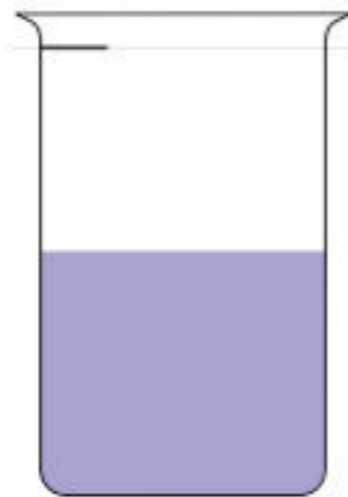


Problem Set

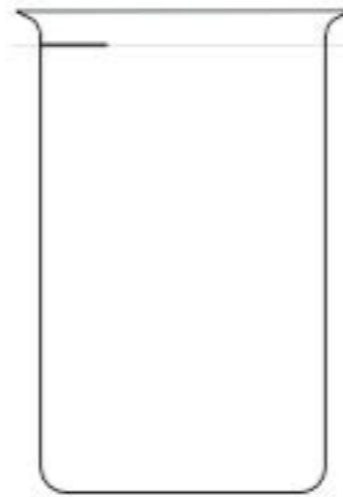
Name _____

Date _____

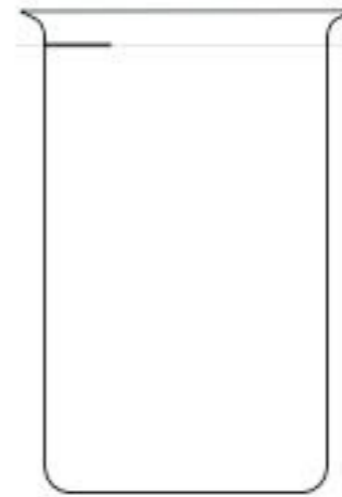
1. A beaker is considered full when the liquid reaches the fill line shown near the top. Estimate the amount of water in the beaker by shading the drawing as indicated. The first one is done for you.



1 half



1 fourth



1 third

2. Juanita cut her string cheese into equal pieces as shown in the rectangles below. In the blanks below, name the fraction of the string cheese represented by the shaded part.

Debrief

The whole in Problem 2 never changes. What happened to the size of an equal part when the string cheese was divided into more parts?

In Problem 1, which was the harder fraction for you to draw well?

Using our method with the cups, how could we make a cup that showed thirds?

In Problem 2, what do you notice about the thirds and sixths? When we marked our measurements on the strips, what did you remember about the measurement of 1 third of the strip and 1 sixth of the strip?

In Problem 3, did you start drawing fourths by making a half? Can you do the same to draw eighths?

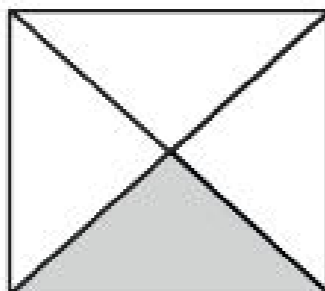
In Problem 5, let's look at two different solution strategies and compare them.

Exit Ticket

Name _____

Date _____

1. Name the fraction that is shaded.



2. Estimate to partition the rectangle into thirds.



3. A plumber has 12 feet of pipe. He cuts it into pieces that are each 3 feet in length. What fraction of the pipe would one piece represent? (Use your strip from the lesson to help you.)