Materials List

Personal white boards

Analog clock, (T) 2 different-sized clear plastic cups, food coloring, water

Eureka Math

3rd Grade
Module 5
Lesson 11

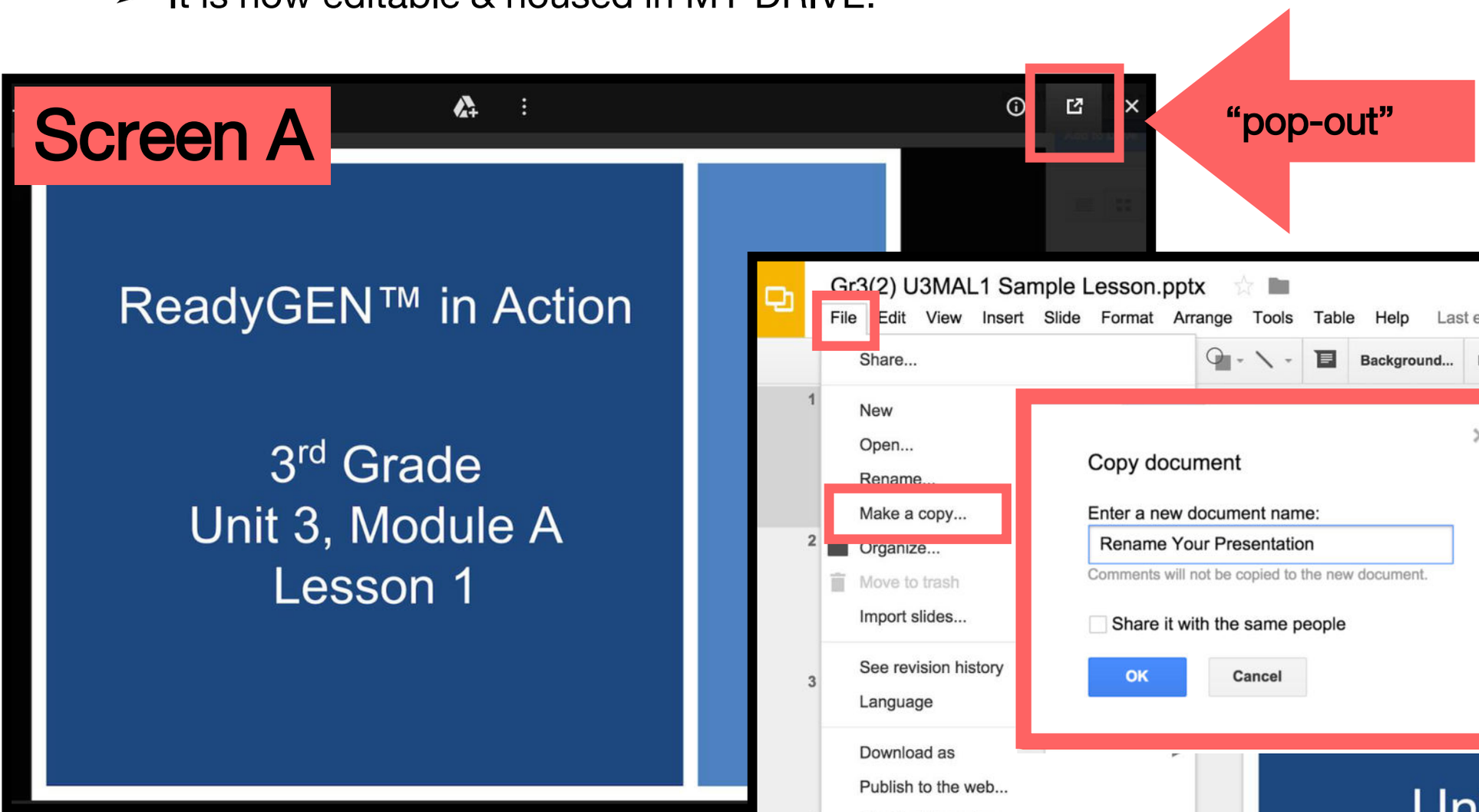
At the request of elementary teachers, a team of Bethel & Sumner educators met as a committee to create Eureka slideshow presentations. These presentations are not meant as a script, nor are they required to be used. Please customize as needed. Thank you to the many educators who contributed to this project!

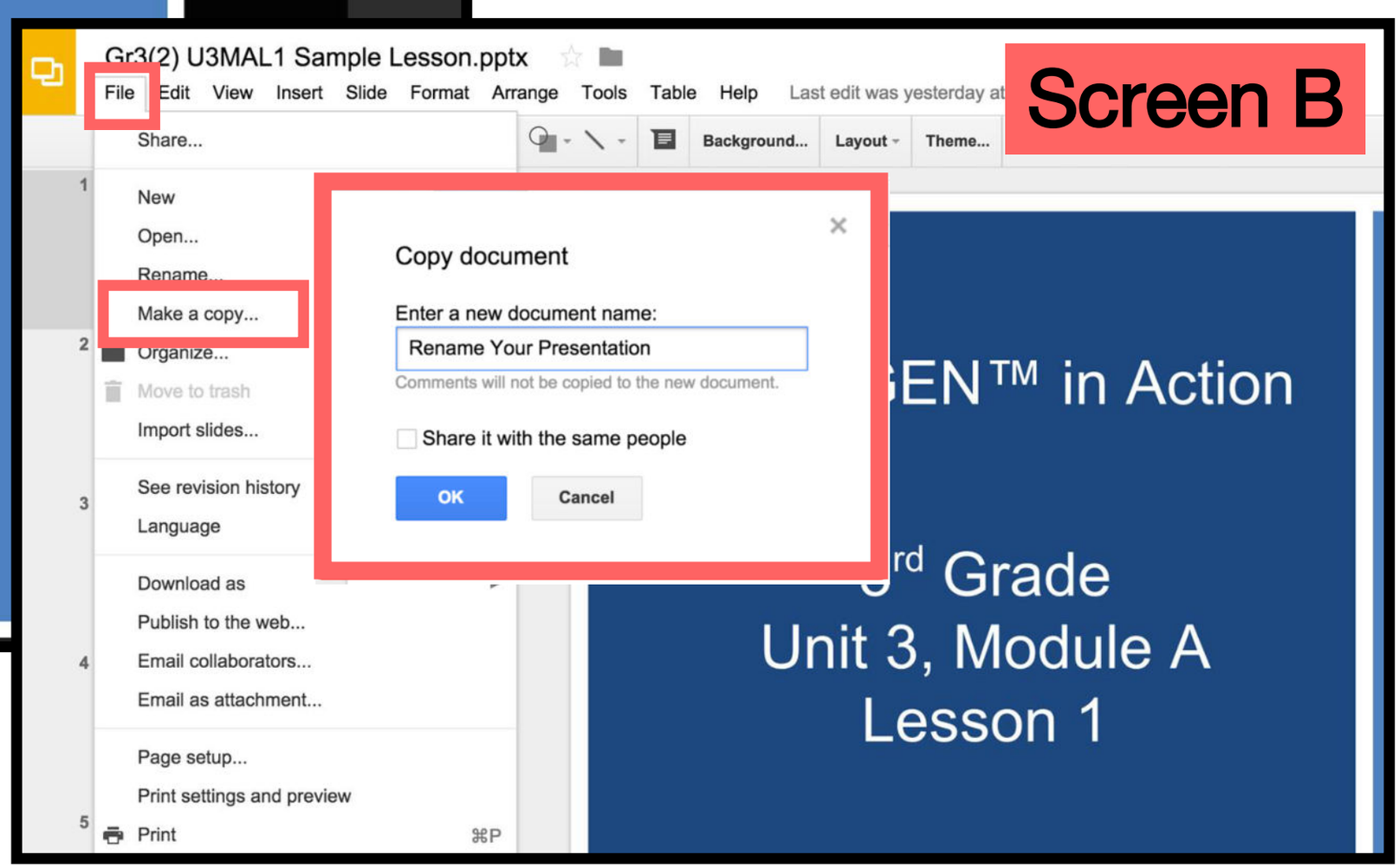
Directions for customizing presentations are available on the next slide.

Customize this Slideshow

Reflecting your Teaching Style and Learning Needs of Your Students

- When the Google Slides presentation is opened, it will look like Screen A.
- Click on the “pop-out” button in the upper right hand corner to change the view.
- The view now looks like Screen B.
- Within Google Slides (not Chrome), choose FILE.
- Choose MAKE A COPY and rename your presentation.
- Google Slides will open your renamed presentation.
- It is now editable & housed in MY DRIVE.





Icons

Read, Draw, Write

Learning Target

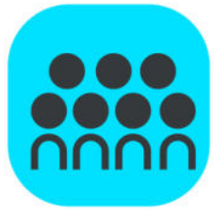
Personal White Board

Problem Set

Manipulatives Needed

Fluency

Think Pair Share



Whole Class

Individual

Partner

Small Group

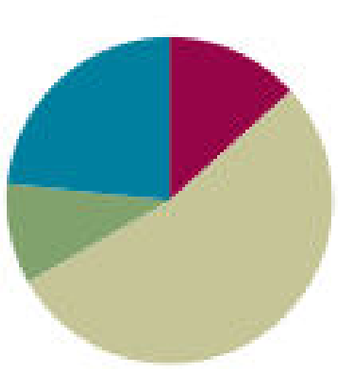
Small Group Time

Lesson 11

Objective: Compare unit fractions with different-sized models representing the whole.

Suggested Lesson Structure

Fluency Practice	(8 minutes)
Application Problem	(6 minutes)
Concept Development	(32 minutes)
Student Debrief	(14 minutes)
Total Time	**(60 minutes)**



Fluency Practice (8 minutes)

- Skip-Count by Fourths on the Clock **3.G.2, 3.NF.1** (3 minutes)
- Greater or Less Than 1 Whole **3.G.2, 3.NF.2b** (2 minutes)
- Write Fractions Greater Than 1 Whole **3.NF.2b** (3 minutes)

I can compare unit fractions with different size models.

Fluency Practice

Skip-Count by Fourths on the Clock

Skip-count by fourths on the clock starting with 5 o’clock.

Fluency Practice

Greater or Less Than 1 Whole

Is ½ greater than or less than 1 whole?

3/2?

2/3?

4/3?

3/4 ?

5/4?

1/3?

11/8?

5/3?

⅝?

11/10?

Fluency Practice

Write Fractions Greater Than 1 Whole

How many halves in 1 whole?
What's 1 more than 2 halves?

Write a fraction on your person whiteboard that is 1 more half than 1 whole.

Repeat with: ⅓, ¼, ⅕, ⅛ , ⅙, and 1/10

Application Problem

Rachel, Silvia, and Lola each received the same homework assignment and only completed part of it. Rachel completed ⅙ of her homework, Silvia completed ½ of her homework, and Lola completed ¼ of her homework. Write the amount of homework each girl completed from least to greatest. Draw a picture to prove your answer.

Application Problem

Rachel, Silvia, and Lola each received the same homework assignment and only completed part of it. Rachel completed ⅙ of her homework, Silvia completed ½ of her homework, and Lola completed ¼ of her homework. Write the amount of homework each girl completed from least to greatest. Draw a picture to prove your answer.

$\frac{1}{6} < \frac{1}{4} < \frac{1}{2}$

Rachel completed the least, Lola was next, and Silvia completed the most out of the girls.

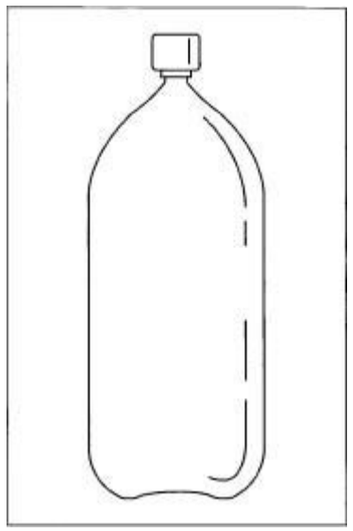
Concept Development

1 is the same as 1.

Show thumbs up if you agree, thumbs down if you disagree

Concept Development

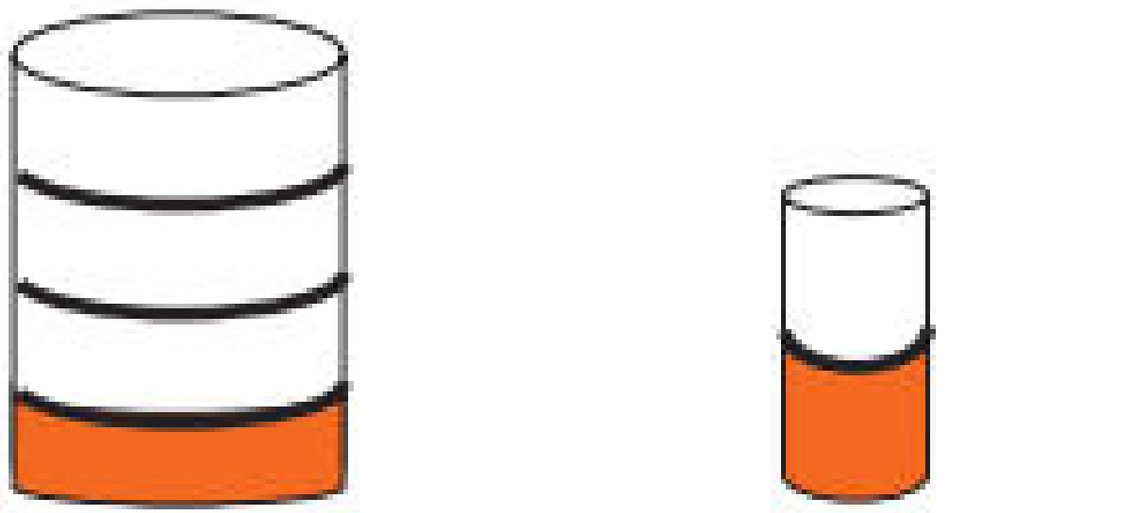
1 liter of soda and 1 can of soda.



Is 1 still the same as 1? Turn and talk to your partner. Does this change your thinking about *1 is the same as 1?*

Concept Development

For breakfast this morning, my brother and I each had a glass of juice.



What fraction of my glass has juice?

What fraction of my brother's glass has juice?

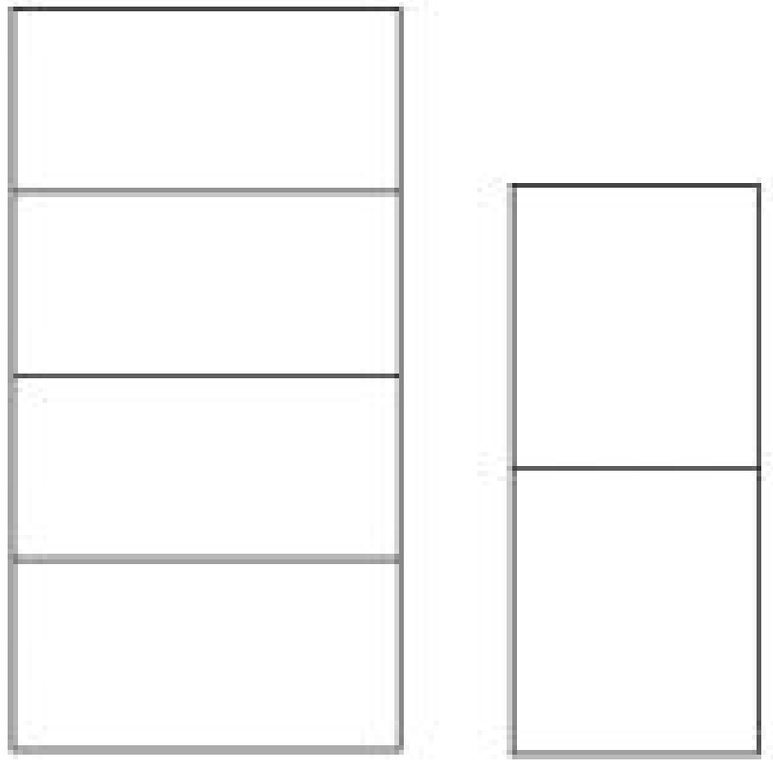
Concept Development

My glass

My brother's glass

When the wholes are the same, 1 half is greater than 1 fourth. Does this picture prove that? Discuss it with your partner.

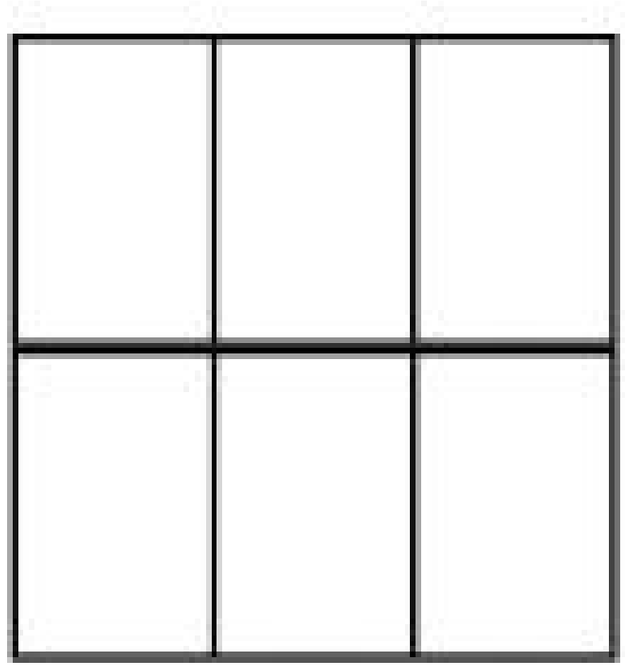
Concept Development



When the wholes are the same, 1 half is greater than 1 fourth. Does this picture prove that?

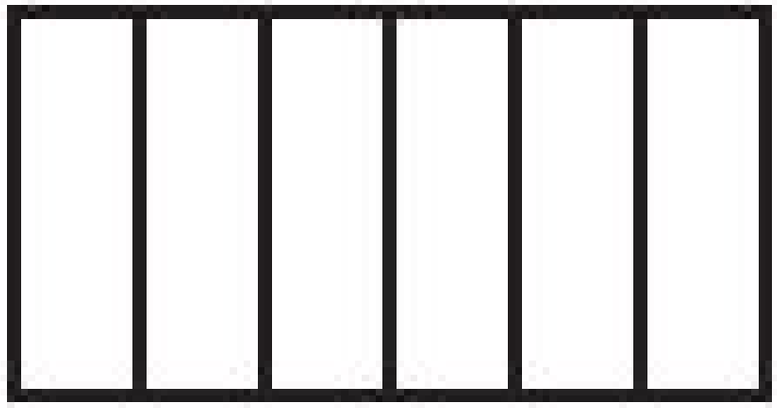
Concept Development

Draw two rectangles that are the same size. Partition each into thirds.



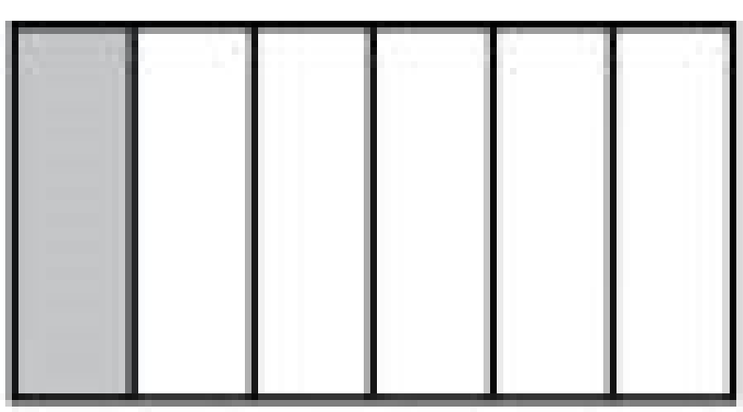
Concept Development

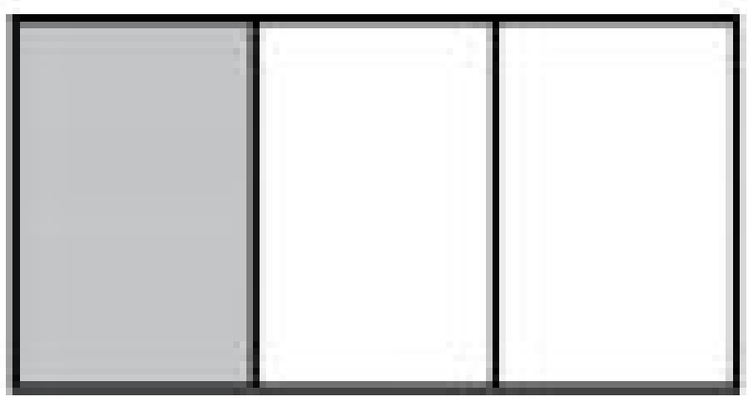
Partition the first rectangle into sixths.



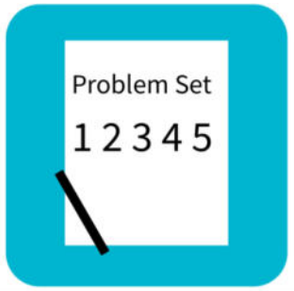
Concept Development

Shade the unit fraction in each rectangle. Label your models and use the world *greater than* or *less than* to compare.





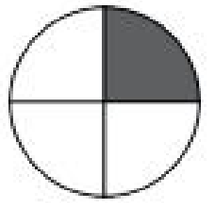
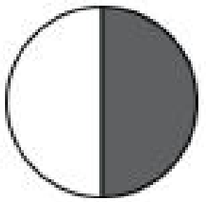
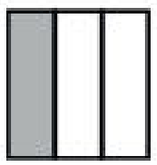
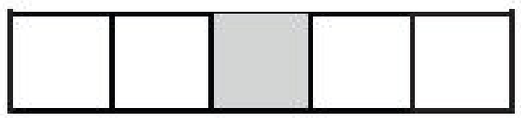
Does this picture prove that 1 sixth is less than 1 third? Why or why not? Discuss with your partner.



Problem Set

Name _____ Date _____

Label the unit fraction. In each blank, draw and label the same whole with a shaded unit fraction that makes the sentence true. There is more than 1 correct way to make the sentence true.

Sample: $\frac{1}{4}$ 	is less than	$\frac{1}{2}$ 
1. 	is greater than	
2. 	is less than	

Debrief

Look at Problem 10. Are the size and shape of the whole important to answering this question?

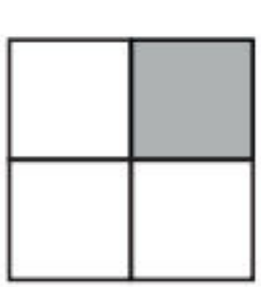
When we compare fractional units, is it important that the size of the whole is the same? Why or why not?

Redraw the diagram in Problem 9 so that Elizabeth is correct.

Exit Ticket

Name _____ Date _____

1. Fill in the blank with a fraction to make the statement true. Draw a matching model.

	
$\frac{1}{7}$ is less than ☐	$\frac{1}{4}$ is greater than ☐

2. Tatiana ate $\frac{1}{2}$ of a small carrot. Louis ate $\frac{1}{4}$ of a large carrot. Who ate more? Use words and pictures to explain your answer.