Eureka Math

4th Grade
Module 6
Lesson 2

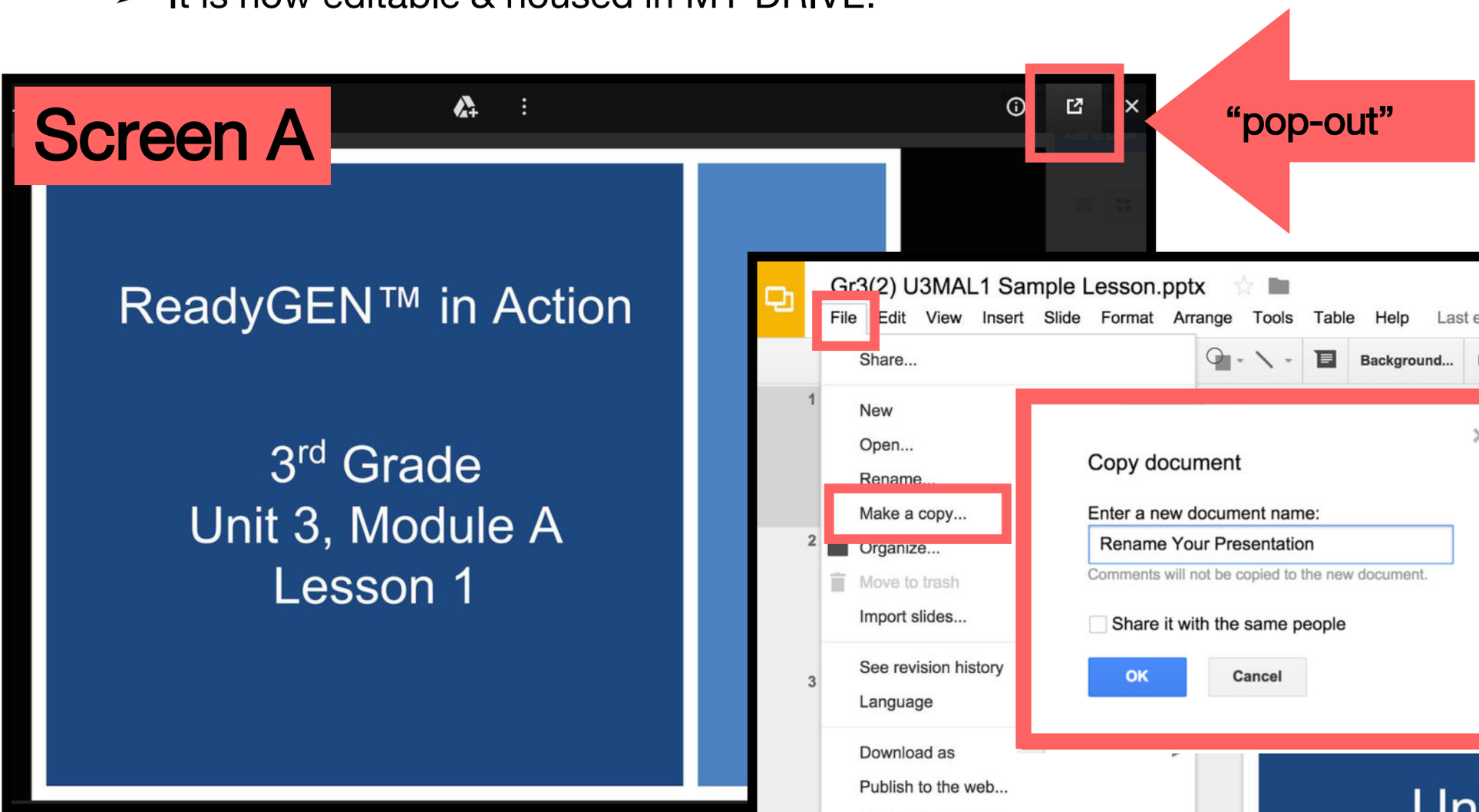
At the request of elementary teachers, a team of Bethel & Sumner educators met as a committee to create Eureka slideshow presentations. These presentations are not meant as a script, nor are they required to be used. Please customize as needed. Thank you to the many educators who contributed to this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

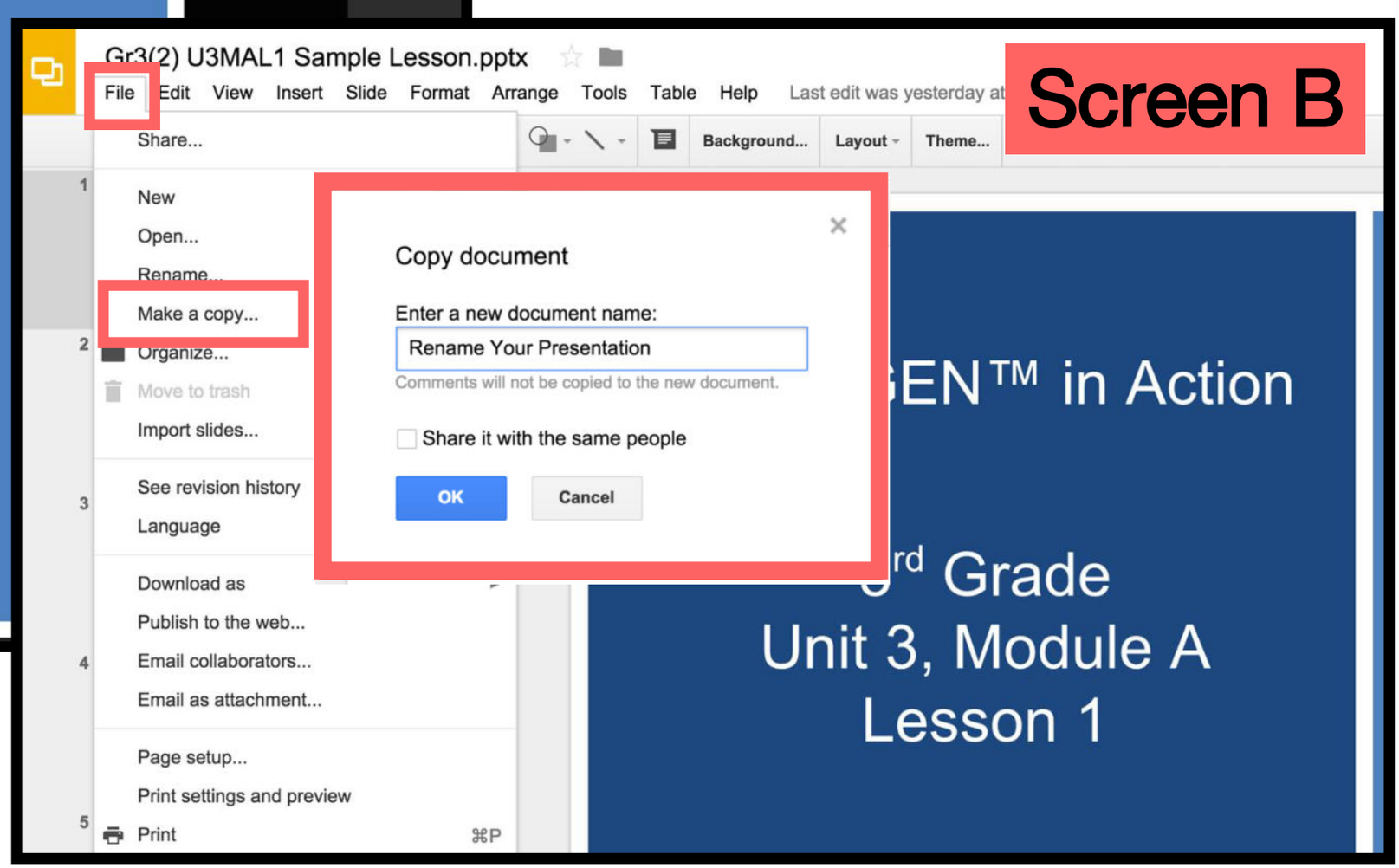
Directions for customizing presentations are available on the next slide.

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.



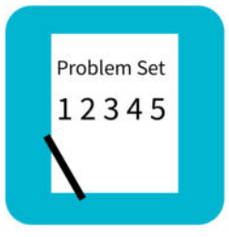


Icons

Read, Draw, Write

Learning Target

Personal White Board

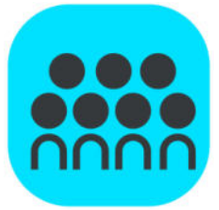


Problem Set

Manipulatives Needed

Fluency

Think Pair Share



Whole Class

Individual

Partner

Small Group

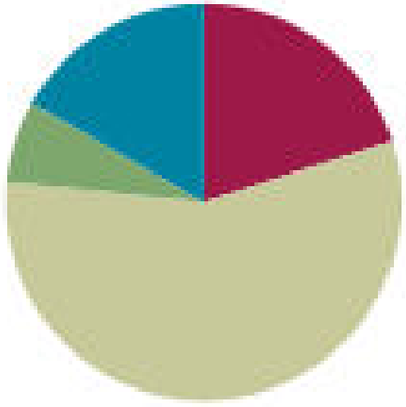
Small Group Time

Lesson 2

Objective: Use metric measurement and area models to represent tenths as fractions greater than 1 and decimal numbers.

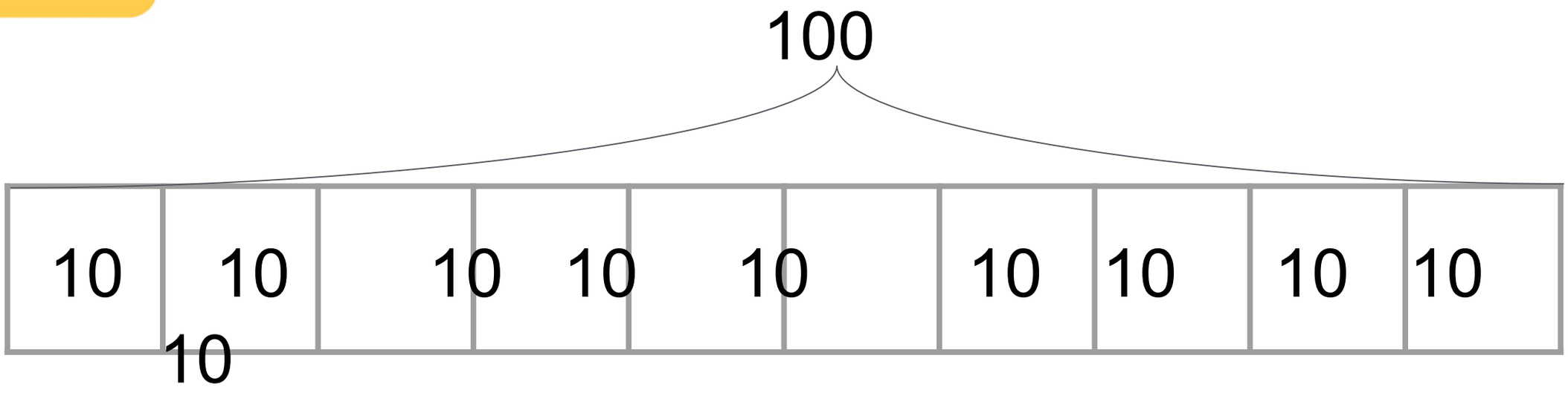
Suggested Lesson Structure

Fluency Practice	(12 minutes)
Application Problem	(4 minutes)
Concept Development	(34 minutes)
Student Debrief	(10 minutes)
Total Time	**(60 minutes)**



Use metric measurement and area models to represent tenths as fractions greater that 1 and decimal numbers.

Divide



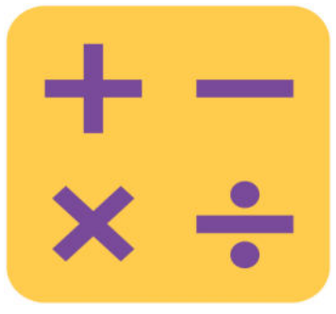
100 ÷ 10 = 10

Say the whole.

How many units is 100 divided into?

Say the division sentence.

Draw a tape diagram showing 10 ÷ 10.



Write the Decimal or Fraction

1/10

Say the fraction.

1/10 = __.__

Complete the number sentence.

Write the Decimal or Fraction

0.3 = ___

Complete the number sentence.

Write the Decimal or Fraction

10/10 = __

Say the fraction.

Complete the number sentence, writing 10 tenths as a whole number.

Count by Tenths

Count by ones to 10, starting at zero.

COunt by tenths to 10 tenths, starting as zero tenths.

1 one is the same as how many tenths?

Let’s count to 10 tenths again. This time, when you come to 1, say one.

Count by Tenths

Count by tenths again. This time, stop when I raise my hand.

Say 3 tenths using digits. For example, 1 tenths would be said as zero point one.

Continue counting using fraction form.

Say 7 tenths using digits.

Continue counting in fraction form.

Count by Tenths

Count by twos to 10 starting at zero.

Count by 2 tenths to 10 tenths, starting at zero.

Count by 2 tenths again. This time, when you come to the whole number, say it.

Count backward by 2 tenths, starting at 1.

Read Draw Write

Read the problem.

Draw and Label.

Write a number sentence.

Write a word sentence.

Application Problem

Yesterday, Ben's bamboo plant grew 0.5 centimeter. Today it grew another 8/10 centimeter. How many centimeters did ben's bamboo plant grow in two days?

Express Lengths as Mixed Numbers and Decimals

Using your pencil and ruler, draw a line that measures 2 centimeters.

Extend the line 6 tenths centimeter.

How many centimeters did you draw initially?

How many tenths of a centimeter did you draw after drawing 2 centimeters?

Record a number sentence showing the total length of your line as a mixed number.

Express Lengths as Mixed Numbers and Decimals

Let’s rewrite this expression in decimal form.

Rewrite your fraction addition in decimal form, and explain to your partner the relationship between the two number sentences and the line you drew.

2 6/10 cm is written in decimal form like this: 2.6 cm. We read this as 2 and 6 tenths centimeters.

Area Model to Represent Tenths

How many tenths are in 1?

How many tenths are in 2?

How many tenths are in 2 and 6 tenths?

Express 26 tenths in fraction form.

20/10 cm + 6/10 cm = 26/10 cm.

Area Model to Represent Tenths

How many rectangles are on your template?

Each rectangle represents 1 one. How many ones do we have?

Each rectangle has been partitioned equally. How many tenths are there in all?

Area Model to Represent Tenths

2 6/10

How many ones are in this number?

Shade in 2 ones.

How many tenths do we still need to shade in?

Shade in 6 tenths more.

Area Model to Represent Tenths

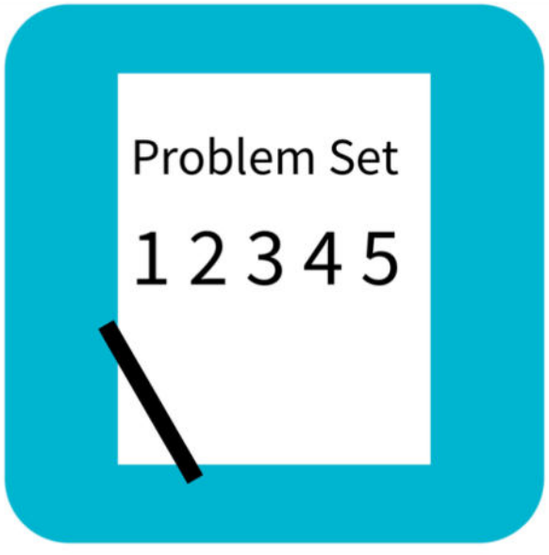
2 6/10 = 2 + 6/10

With your partner, rewrite 2 + 6/10, using decimal form to add the tenths.

2 + 0.6 can be written as…?

2.6 = 2 + 0.6

With your partner, draw a number bond, this time using the decimal form.



Problem Set

Name _____ Date _____

1. For each length given below, draw a line segment to match. Express each measurement as an equivalent mixed number.

   a. 2.6 cm

   b. 3.4 cm

   c. 3.7 cm

Debrief

Participate in the discussion by...

- Thinking about the question.
- Sharing your work.
- Explaining your strategy.
- Listening to others.

Debrief

Look at Problems 1(a) and 2(a). What do you notice? How could you apply what you did in Problem 2(a) to Problem 1(a)? Are there other similarities within Problem 1 and 2?

Look at Problem 2(e) with your partner. Explain to each other how you decided how much more is needed to get to 5.

How did the Application Problem connect to today's lesson with decimal fractions?

Exit Ticket

Name _____ Date _____

1. For the length given below, draw a line segment to match. Express the measurement as an equivalent mixed number.

   4.8 cm

2. Write the following in decimal form and as a mixed number. Shade the area model to match.

   a. 3 ones and 7 tenths = _____ = _____