Eureka Math

3rd Grade
Module 2
Lesson 21

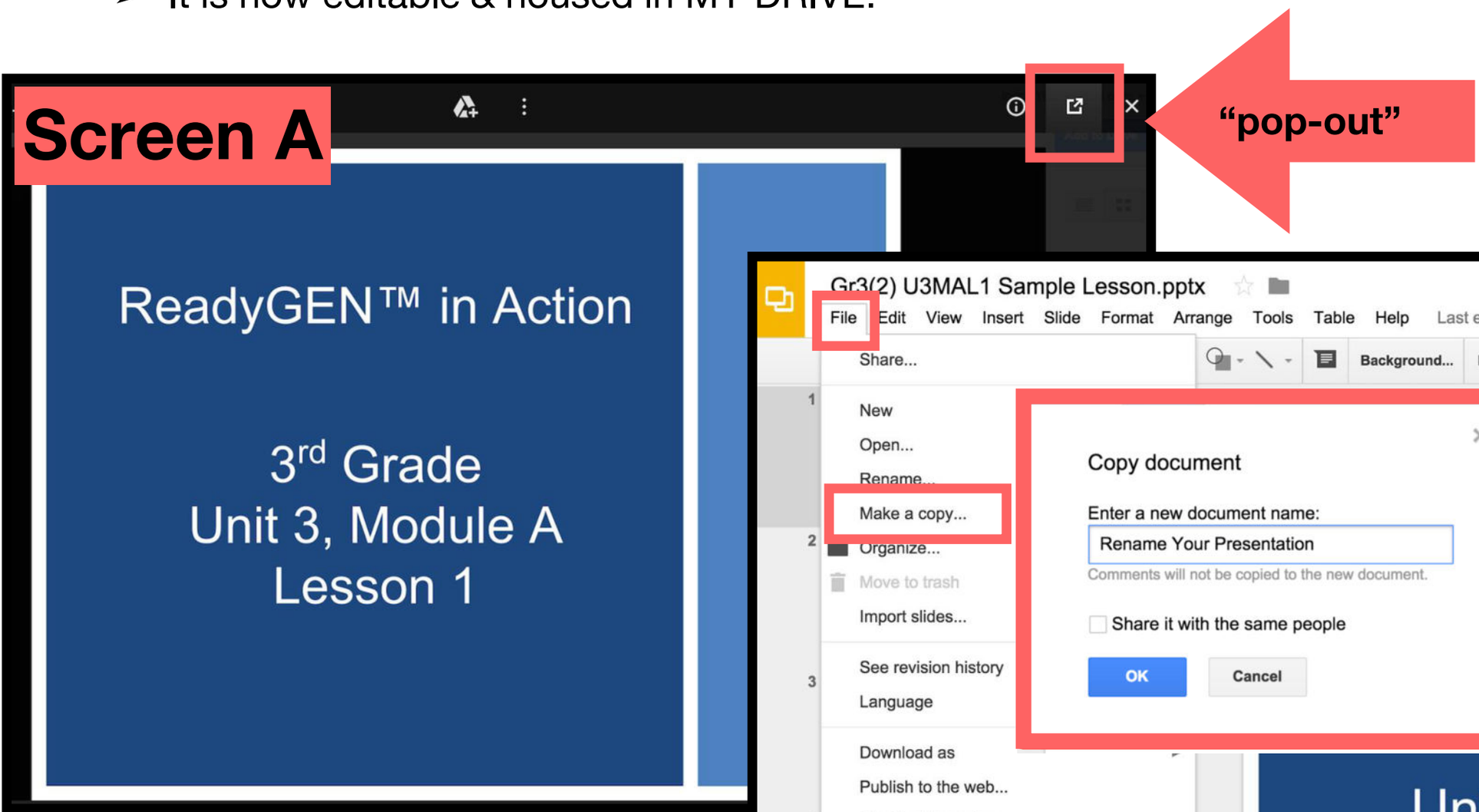
At the request of elementary teachers, a team of Bethel & Sumner educators met as a committee to create Eureka slideshow presentations. These presentations are not meant as a script, nor are they required to be used. Please customize as needed. Thank you to the many educators who contributed to this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

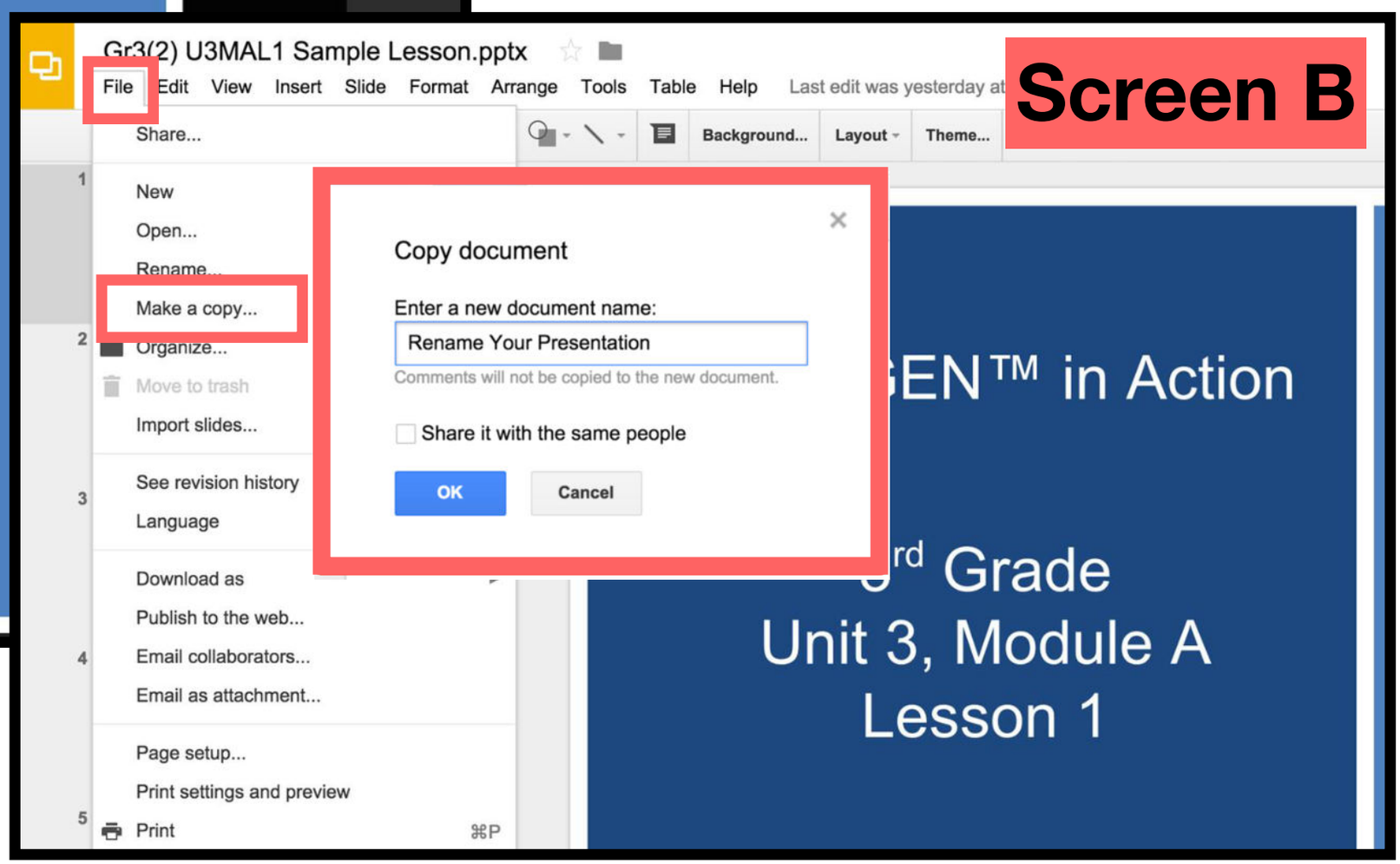
Directions for customizing presentations are available on the next slide.

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.



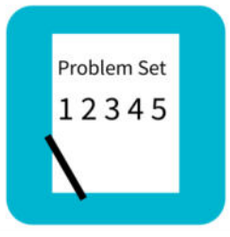


Icons

Read, Draw, Write

Learning Target

Personal White Board

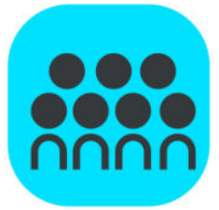


Problem Set

Manipulatives Needed

Fluency

Think Pair Share



Whole Class

Individual

Partner

Small Group

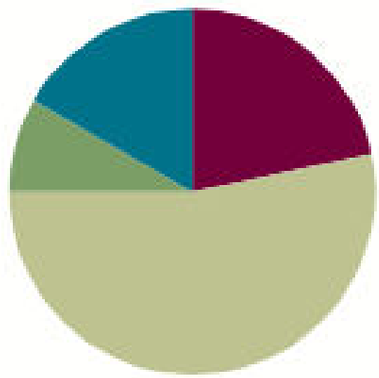
Small Group Time

Lesson 21

Objective: Estimate sums and differences of measurements by rounding, and then solve mixed word problems.

Suggested Lesson Structure

Fluency Practice	(13 minutes)
Application Problem	(5 minutes)
Concept Development	(32 minutes)
Student Debrief	(10 minutes)
Total Time	**(60 minutes)**



I can estimate sums and differences of measurements by rounding, and then solve mixed word problems.

Group Counting

Threes to 30

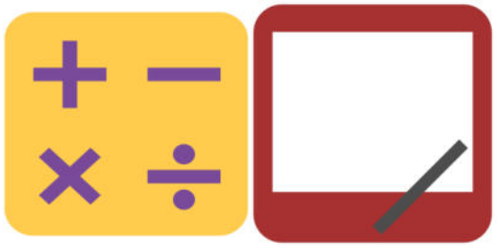
Fours to 40

Sixes to 60

Sevens to 70

Eights to 80

Nines to 90

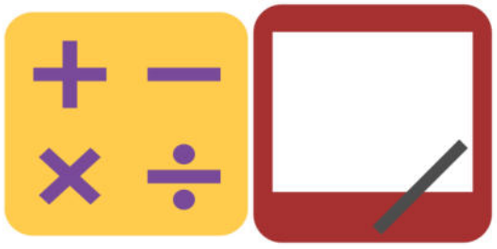


Use Algorithms with Different Units

Write 495 L + 126 L = ___

Use Algorithms with Different Units

Write 368 L + 132 L = ___



Use Algorithms with Different Units

Write 479 cm + 221 cm = ___

Use Algorithms with Different Units

Write 532 cm + 368 cm = ___

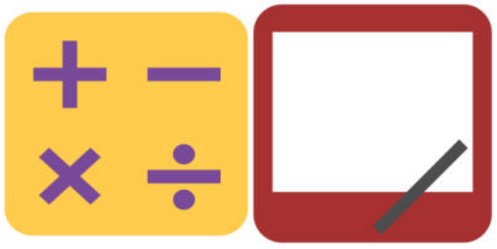
Use Algorithms with Different Units

870 L – 39 L = ___

870 L – 439 L = ___

807 g – 45 g =___

807 g – 445 g = ___

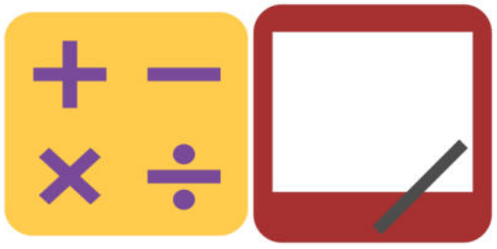


Use Algorithms with Different Units

870 L – 439 L = ___

Use Algorithms with Different Units

807 g – 45 g =___



Use Algorithms with Different Units

807 g – 445 g = ___

Estimate and Subtract

Write 71 – 23 ≈ ___

Say the subtraction sentence

Estimate and Subtract

47 - 18 ≈ ___

Say the subtraction sentence

Estimate and Subtract

574 – 182 ≈ ____

Say the subtraction sentence

Estimate and Subtract

704 – 187 ≈ ____

Say the subtraction sentence

Application Problem

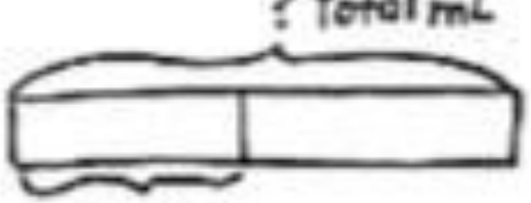
Gloria fills water balloons with 238 mL of water. How many milliliters of water are in two water balloons? Estimate to the nearest 10 mL and 100 mL. Which gives a closer estimate?

Application Problem

Partner 1

238mL ≈ 240mL

240 + 240 = 480mL



Partner 2

238mL ≈ 200mL

200mL + 200mL = 400mL

$$\begin{array}{r} 238 \\ +238 \\ \hline 476 \end{array}$$

There are 476mL in 2 balloons.

Rounding to the nearest 10 gives a closer estimate than rounding to the nearest 100.

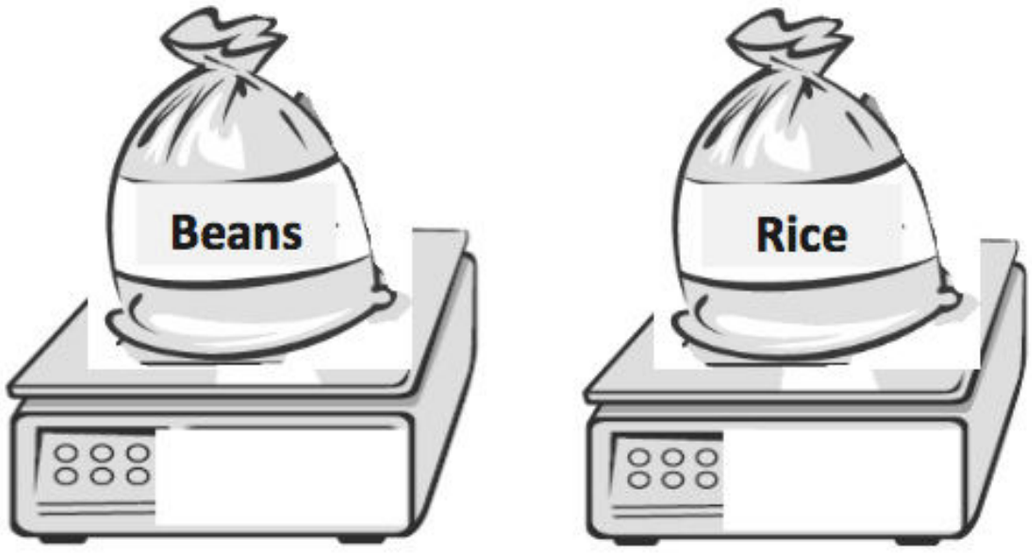
Concept Development & Problem Set

Problems 1–3 of the Problem Set:

Student Directions: Follow the Problem Set directions to complete Problems 1–3 with your group. Once you have finished those problems, complete Problem 4 on your own.

Name _____ Date _____

1. Weigh the bags of beans and rice on the scale. Then, write the weight on the scales below.



Student Debrief (10 minutes)

Lesson Objective: Estimate sums and differences of measurements by rounding, and then solve mixed word problems.

How can you use measurement as a tool for checking whether or not your answers are reasonable?

How did you use mental math in today's lesson?

How did the Application Problem prepare you for today's Problem Set?

How did the Fluency Practice relate to your work today?

Exit Ticket

Name _____ Date _____

Rogelio drinks water at every meal. At breakfast, he drinks 237 milliliters. At lunch, he drinks 300 milliliters. At dinner, he drinks 177 milliliters.

a. Estimate the total amount of water Rogelio drinks. Then, find the actual amount of water he drinks at all three meals.

b. Estimate how much more water Rogelio drinks at lunch than at dinner. Then, find how much more water Rogelio actually drinks at lunch than at dinner.