Materials List

(T)Place Value Charts
(S) Personal white board

(T) Beaker images
(S) Personal white board

(T) Scale
(S) Spring scales, digital scales, beakers (mL), personal white board

Eureka Math

3rd Grade
Module 2
Lesson 11

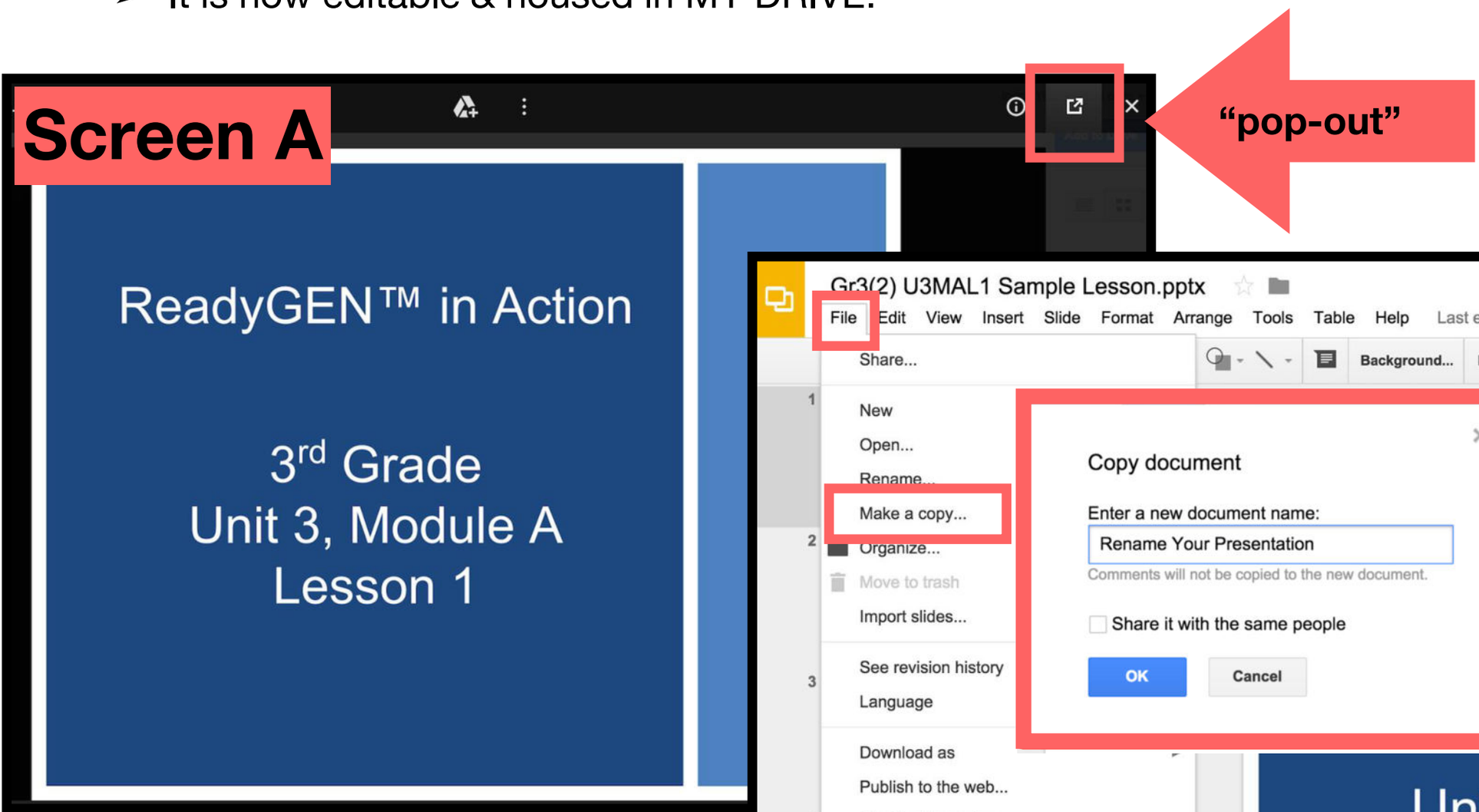
At the request of elementary teachers, a team of Bethel & Sumner educators met as a committee to create Eureka slideshow presentations. These presentations are not meant as a script, nor are they required to be used. Please customize as needed. Thank you to the many educators who contributed to this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

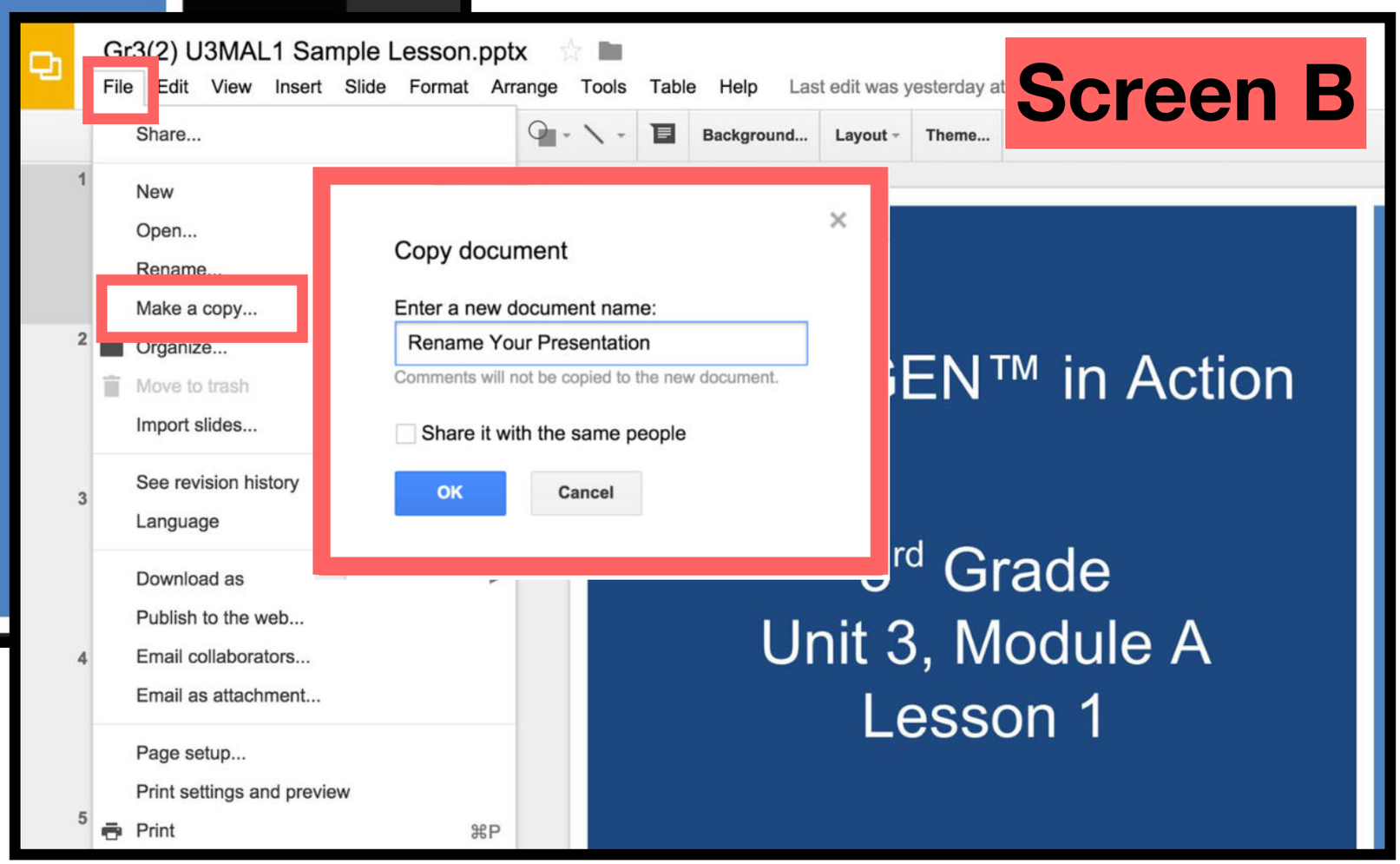
Directions for customizing presentations are available on the next slide.

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

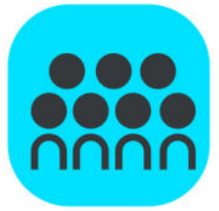
Personal White Board

Problem Set

Manipulatives Needed

Fluency

Think Pair Share



Whole Class

Individual

Partner

Small Group

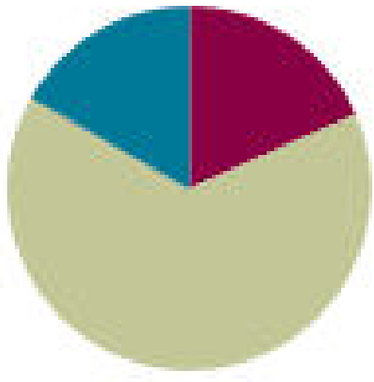
Small Group Time

Lesson 11

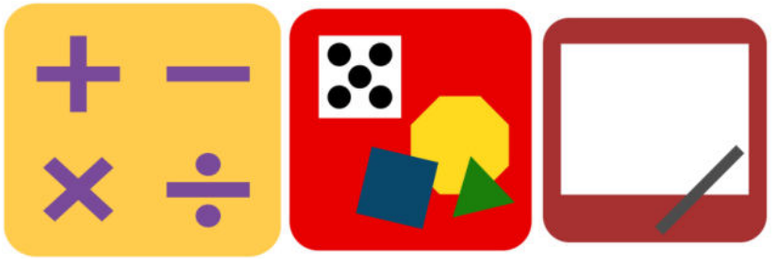
Objective: Solve mixed word problems involving all four operations with grams, kilograms, liters, and milliliters given in the same units.

Suggested Lesson Structure

Fluency Practice	(11 minutes)
Concept Development	(39 minutes)
Student Debrief	(10 minutes)
Total Time	**(60 minutes)**



I can solve mixed word problems involving all four operations with grams, kilograms, liters, and milliliters given in the same units.



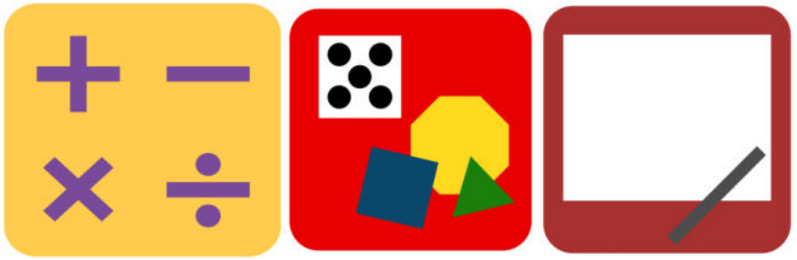
Renaming Tens

Write 7 tens = _____.
“Say the number”.

Write 8 tens = _____.
“Say the number”.

Write 9 tens = _____.
“Say the number”.

Write 10 tens = _____.
“Say the number”.



Renaming Tens

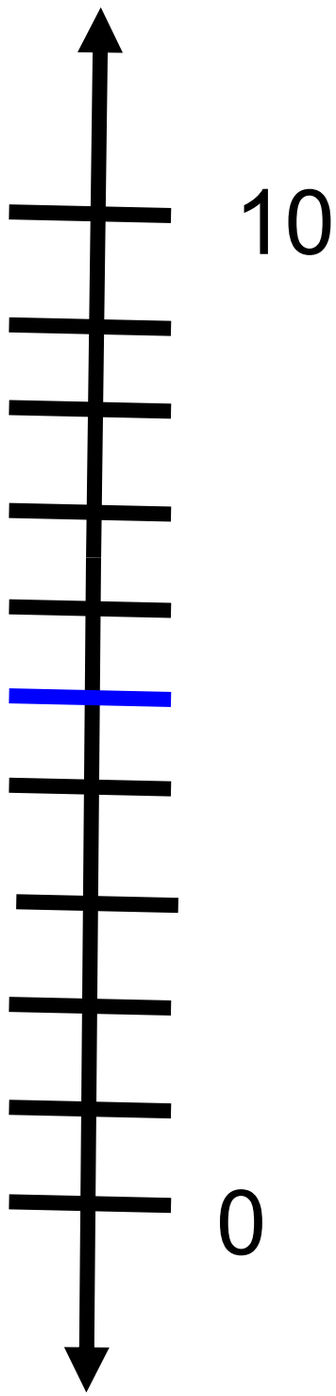
Write 11 tens = _____.
“Say the number”.

Write 12 tens = _____.
“Say the number”.

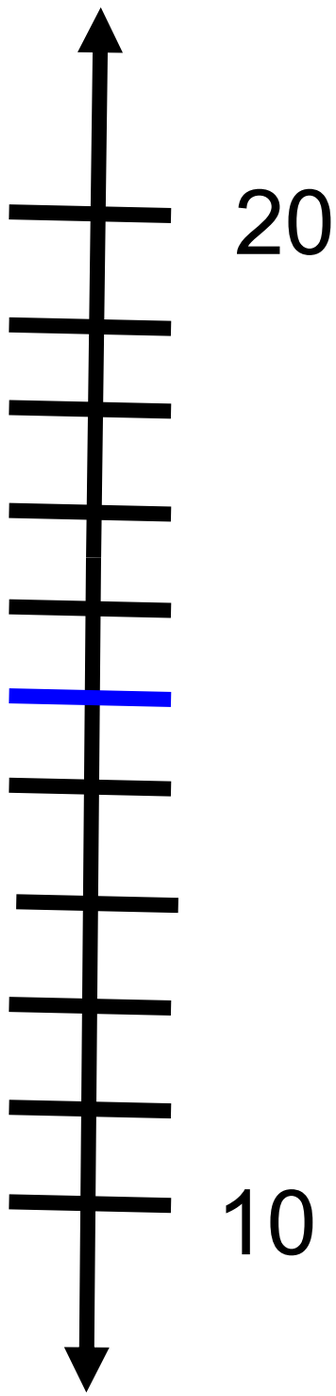
Write 16 tens = _____.
“Say the number”.

Write 19 tens = _____.
“Say the number”.

Halfway on the Number Line



Halfway on the Number Line



Read a Beaker

Start at the bottom of the beaker and count by 1 liter.

Concept Development

Part 1: Solve word problems involving addition and subtraction.

A pet mouse weighs 34 grams. A pet hamster weighs 126 grams more than the mouse. How much does the pet hamster weigh? Model the problem on your board.

Concept Development

Talk with your partner: Is there a simplifying strategy you might use to find how much the hamster weighs?

$$34 \text{ g} + 126 \text{ g} = ?$$

Concept Development

Part 1: Solve word problems involving addition and subtraction.

As time allows, repeat the process.

Judith squeezes 140 milliliters of lemon juice to make 1 liter of lemonade. How many milliliters of lemon juice are in 2 liters of lemonade?

Concept Development

Part 1: Solve word problems involving addition and subtraction.

As time allows, repeat the process.

Robert’s crate of tools weighs 12 kilograms. He takes his power tools out. Now the crate weighs 4 kilogram. How many kilograms do the power tools weigh?

Concept Development

Problem 2: Solve word problems involving multiplication.

A pitcher of shaved ice needs 5 milliliters of food coloring to turn red. How many milliliters of food coloring are needed to make 9 pitchers of shaved ice red? Explain to your partner how you would model and solve this problem.

Concept Development

Problem 2: Solve word problems involving multiplication.

As time allows, repeat the process.

Alyssa drinks 3 liters of water every day. How many liters will she drink in 8 days?

There are 4 grams of almonds in each bag of mixed nuts. How many grams of almonds are in 7 bags?

Concept Development

Problem 3: Solve word problems involving division.

Let’s work in groups to solve the following problem.

At the pet shop there are 36 liters of water in a tank. Each fish bowl holds 4 liters. How many fish bowls can the shopkeeper fill using the water in the tank?

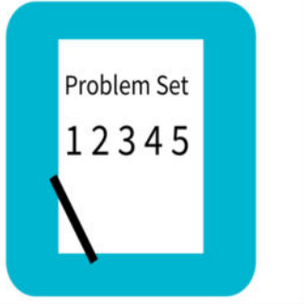
Concept Development

Problem 3: Solve word problems involving division.

As time allows, repeat the process:

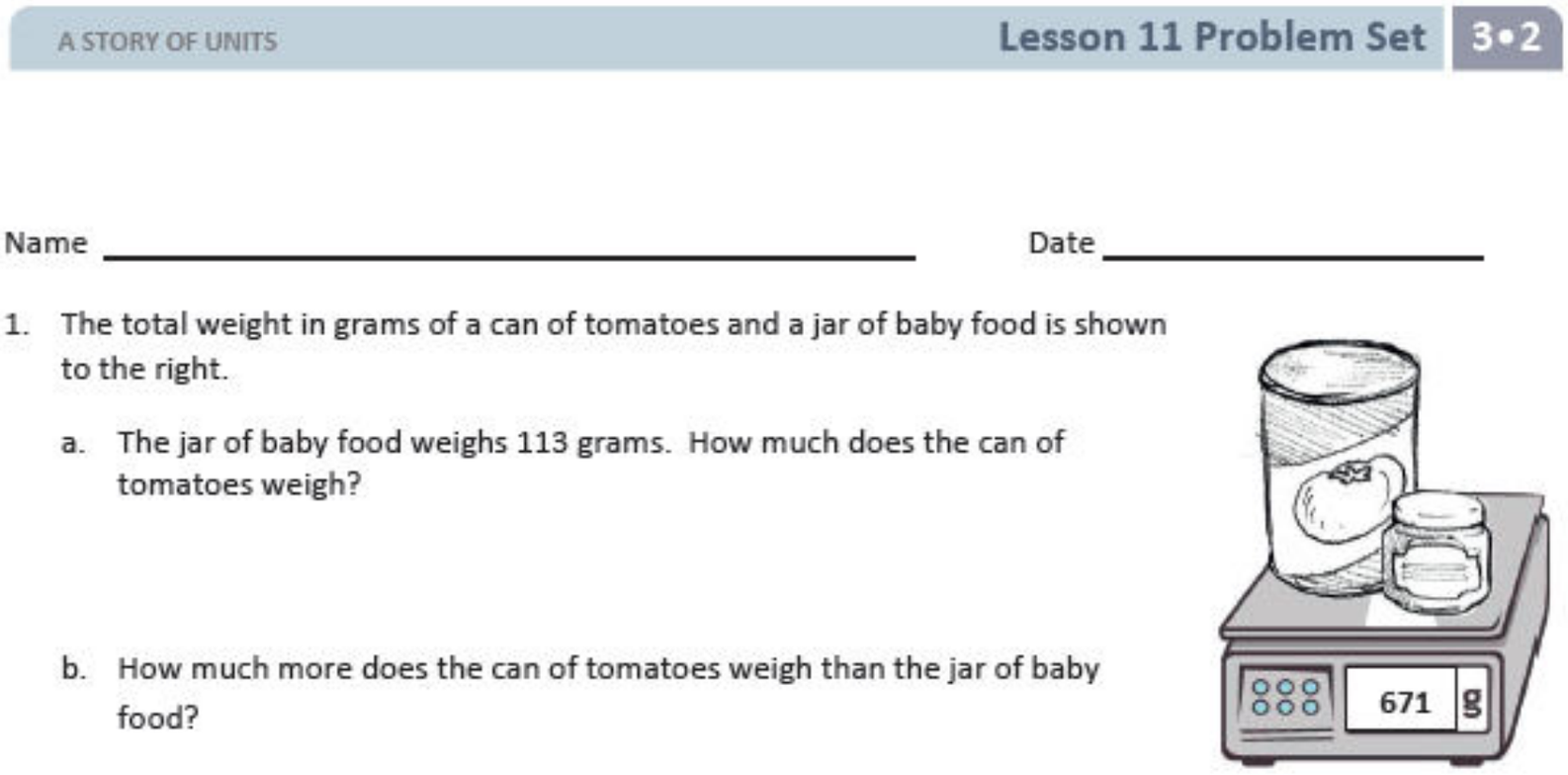
Every day the school garden gets watered with7 liters of water. How many days pass until the garden has been watered with 49 liters?

A bin at the grocery store holds 9 kilograms of walnuts.The total value of 9 kilograms of walnuts is $36. How much does 1 kilogram of walnuts cost?



Problem Set

Students should do their personal best to complete the problem set within the allotted 10 minutes. For some classes, it may be appropriate to modify the assignment by specifying which problems they work on first. Some problems do not specify a method for solving. Students should solve these problems using the RDW approach used for Application Problems.



A STORY OF UNITS **Lesson 11 Problem Set** 3•2

Name _____ Date _____

1. The total weight in grams of a can of tomatoes and a jar of baby food is shown to the right.

   a. The jar of baby food weighs 113 grams. How much does the can of tomatoes weigh?

   b. How much more does the can of tomatoes weigh than the jar of baby food?

Student Debrief

Student Debrief (10 minutes)

Lesson Objective: Solve mixed word problems involving all four operations with grams, kilograms, liters, and milliliters given in the same units.

Exit Ticket

After the Student Debrief, instruct students to complete the Exit Ticket. A review of their work will help with assessing students' understanding of the concepts that were presented in today's lesson and planning more effectively for future lessons. The questions may be read aloud to the students.

Name _____ Date _____

The capacities of three cups are shown below.

Cup A
160 mL

Cup B
280 mL

Cup C
237 mL