Eureka Math

3rd Grade
Module 2
Lesson 18

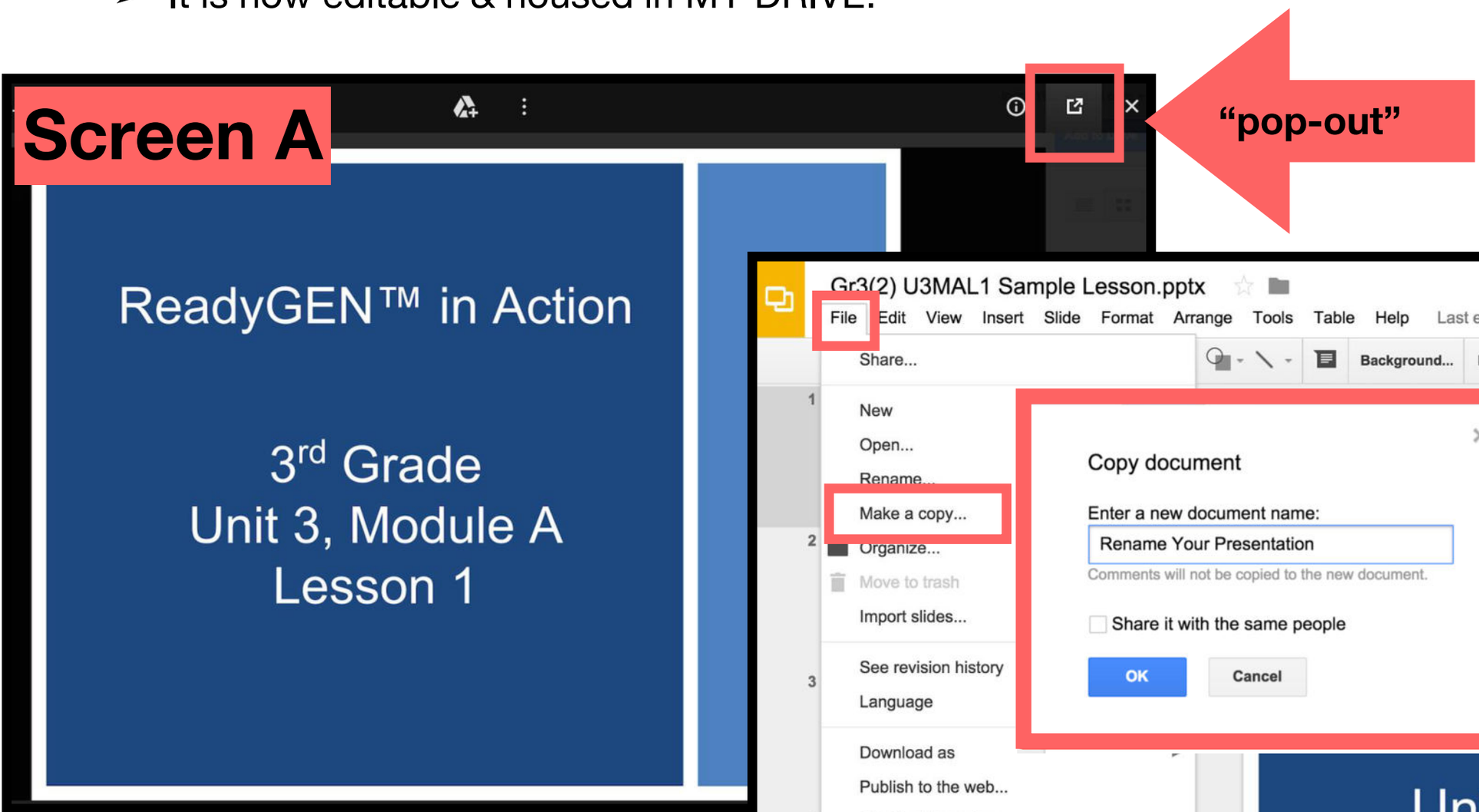
At the request of elementary teachers, a team of Bethel & Sumner educators met as a committee to create Eureka slideshow presentations. These presentations are not meant as a script, nor are they required to be used. Please customize as needed. Thank you to the many educators who contributed to this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

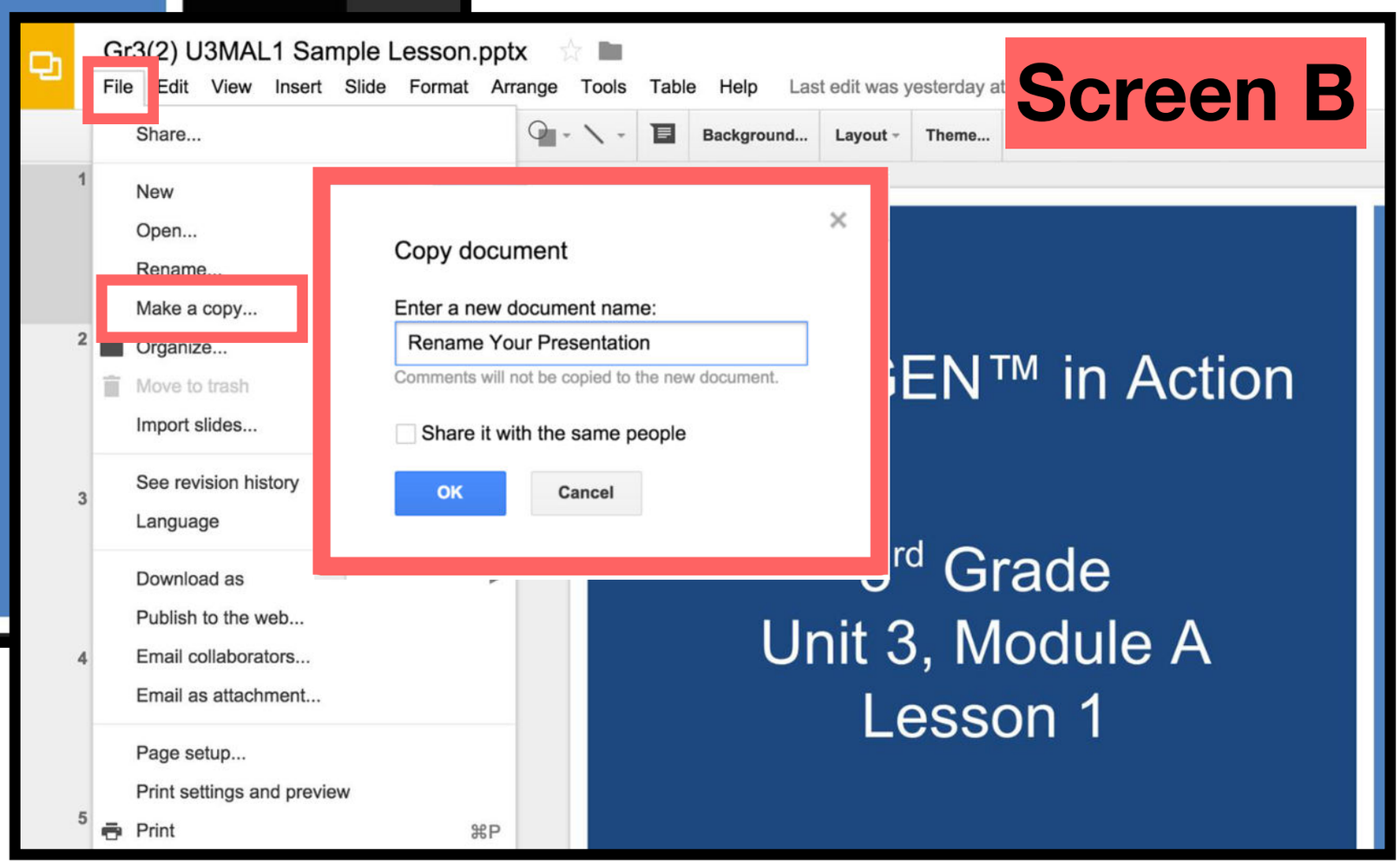
Directions for customizing presentations are available on the next slide.

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.



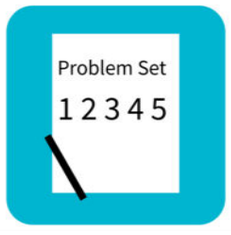


Icons

Read, Draw, Write

Learning Target

Personal White Board

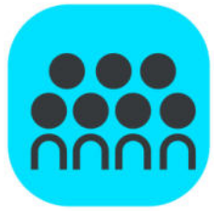


Problem Set

Manipulatives Needed

Fluency

Think Pair Share



Whole Class

Individual

Partner

Small Group

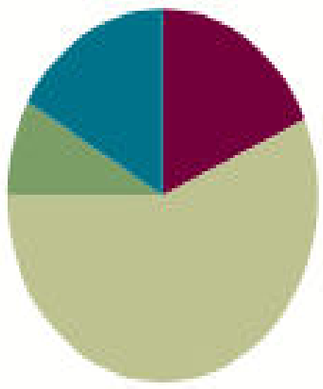
Small Group Time

Lesson 18

Objective: Decompose once to subtract measurements including three-digit minuends with zeros in the tens or ones place.

Suggested Lesson Structure

Fluency Practice	(11 minutes)
Application Problem	(5 minutes)
Concept Development	(34 minutes)
Student Debrief	(10 minutes)
Total Time	**(60 minutes)**



Objective: I can decompose once to subtract measurements including three-digit minuends with zeros in the tens or ones place.

Group Counting

Threes to 30

Fours to 40

Sixes to 60

Sevens to 70

Eights to 80

Nines to 90

Subtract Mentally

Say the number sentence in units of one.

10 - 3 =

11 - 3 =

61 - 3 =

Subtract Mentally

Say the number sentence in units of ten.

100 - 30 =

110 - 30 =

610 - 30 =

Estimate and Add

Say:

38 + 23 =

Round each number to nearest ten.

Estimate and Add

40 + 20 =

38 + 23 ≈ 40 + 20

38 + 23 =

Estimate and Add

24 + 59 =

173 + 49 =

519 + 185 =

Application Problem

Tara brings 2 bottles of water on her hike. The first bottle has 471 milliliters of water, and the second bottle has 354 milliliters of water.

How many milliliters of water does Tara bring on her hike?

Application Problem

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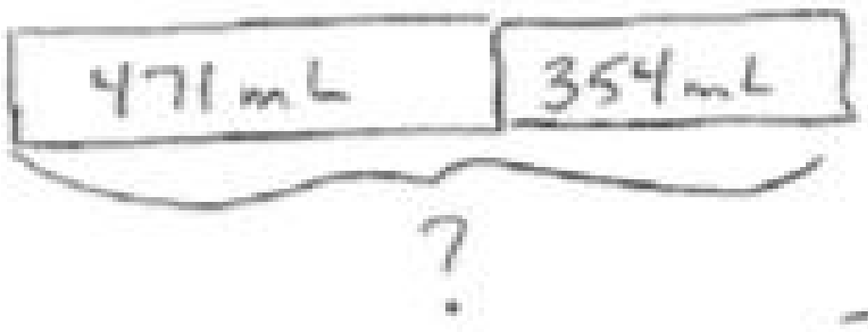
How many milliliters of water does Tara bring on her hike?



471 mL
+354 mL
825 mL

Tara brings 825 mL of water.

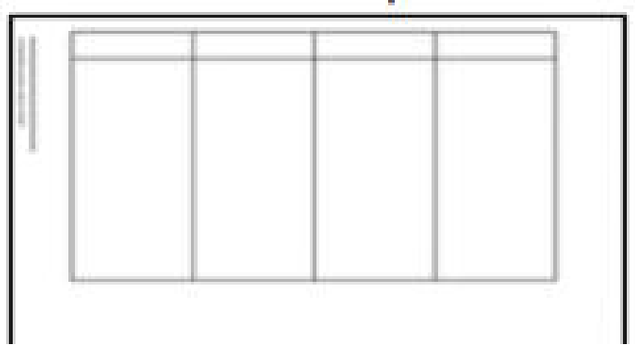
Concept Development

Place Value Template

Part 1: Use the place value chart to model decomposing once to subtract with three-digit minuends.

Tara has 132 milliliters of water left after hiking. How can we find out how many milliliters of water Tara drinks while she is hiking?

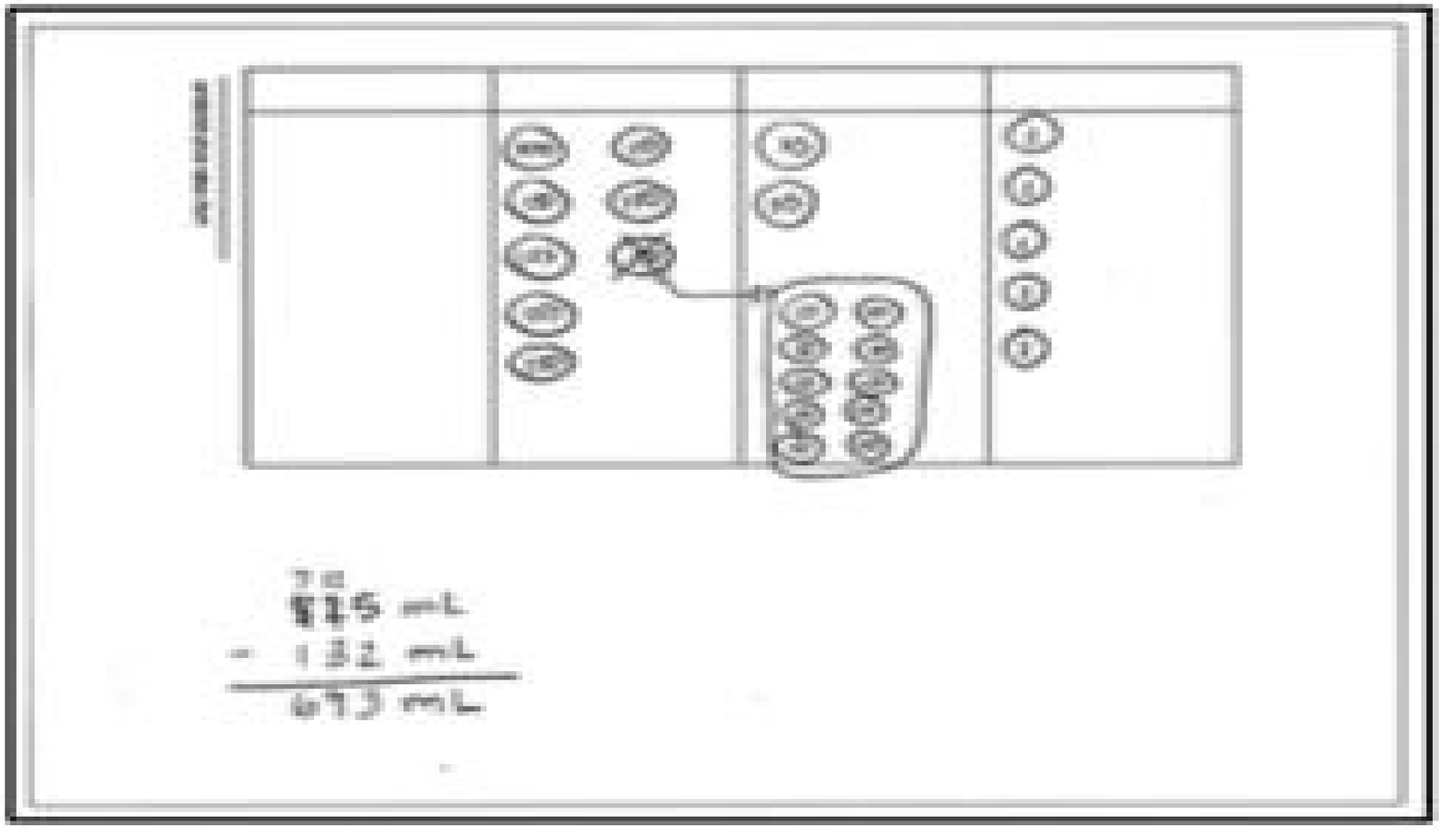
Lesson 14 Template

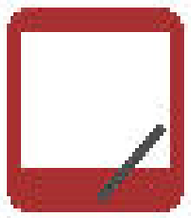


Concept Development

Place Value Template

Tara has 132 milliliters of water left after hiking. How can we find out how many milliliters of water Tara drinks while she is hiking?





Concept Development

Place Value Template

Tara has 132 milliliters of water left after hiking. How can we find out how many milliliters of water Tara drinks while she is hiking?

Tara drank 693 milliliters of water on her hike.

Further practice:

785 cm - 36 cm

440 g - 223 g

508 mL - 225 mL

Concept Development

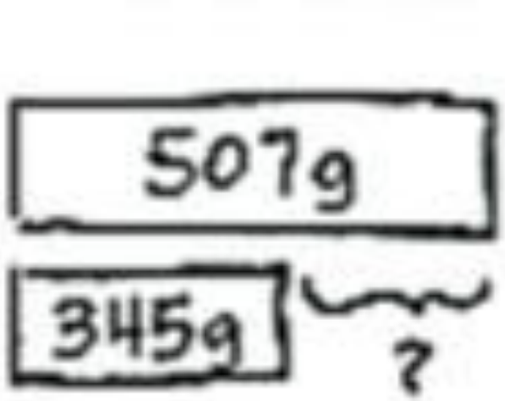
Part 2: Subtract using the standard algorithm.

Nooran buys 507 grams of grapes at the market on Tuesday. On Thursday, he buys 345 grams of grapes.

How many more grams of grapes did Nooran buy on Tuesday than on Thursday?

Concept Development

Nooran buys 507 grams of grapes at the market on Tuesday. On Thursday, he buys 345 grams of grapes. How many more grams of grapes did Nooran buy on Tuesday than on Thursday?



$$\begin{array}{r} {}^{4}\cancel{5}\,{}^{10}\cancel{0}7 \\ -\,345 \\ \hline 162 \end{array}$$

Nooran bought 162 grams more on Tuesday than on Thursday.

Concept Development

Further practice:

513 cm - 241 cm =

760 g - 546 g =

506 mL - 435 mL =

Problem Set

Problem Set (10 minutes)

Name _____ Date _____

1. Solve the subtraction problems below.

   a. 60 mL – 24 mL b. 360 mL – 24 mL c. 360 mL – 224 mL

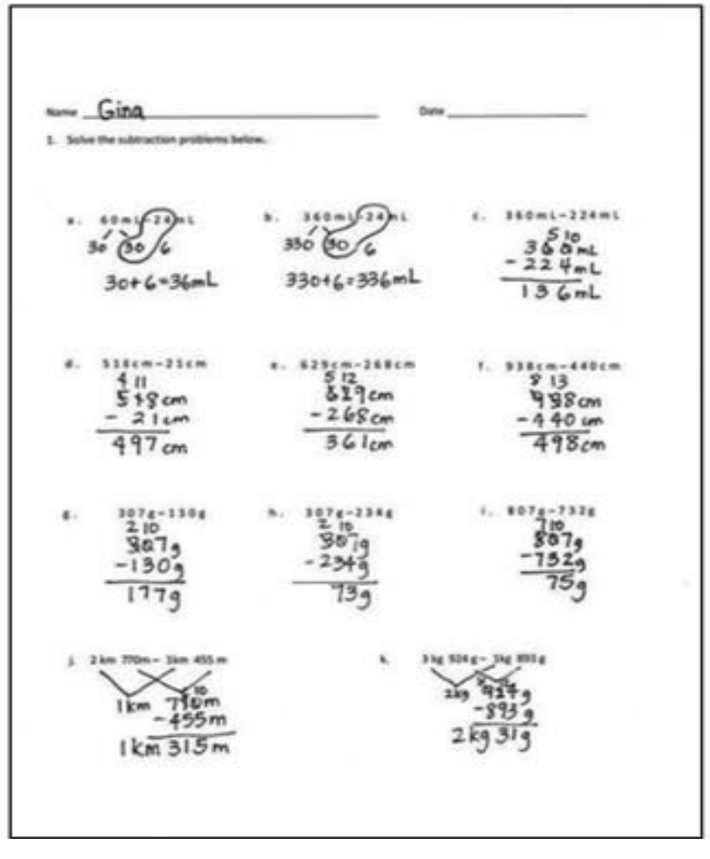
A STORY OF UNITS Lesson 18 Problem Set 3•2

   d. 518 cm – 21 cm e. 629 cm – 268 cm

2. The total weight of 3 books is shown to the right. If 2 books weigh 233 grams, how much does the third book weigh? Use a tape diagram to model the problem.

Student Debrief

Lesson Objective: Decompose once to subtract measurements including three-digit minuends with zeros in the tens or ones place.



Name Gina Date

1. Solve the subtraction problems below.

a. 60mL − 24mL
30 30 6
30+6=36mL

b. 360mL − 24mL
350 30 6
330+6=336mL

c. 360mL − 224mL
5 10
360mL
−224mL
136mL

d. 518cm − 21cm
4 11
518cm
− 21cm
497cm

e. 629cm − 268cm
5 12
629cm
−268cm
361cm

f. 938cm − 440cm
8 13
938cm
−440cm
498cm

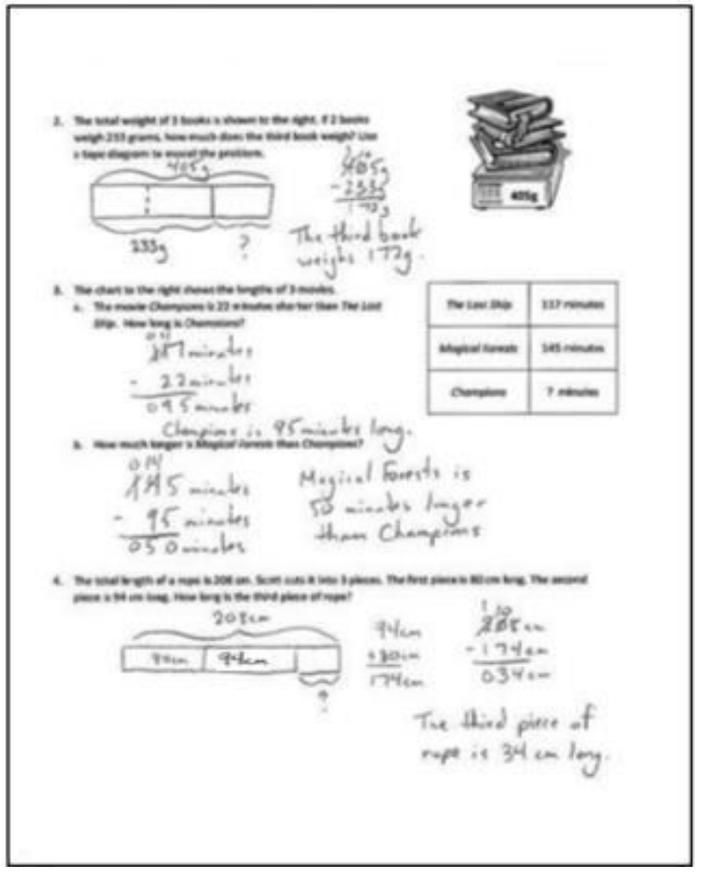
g. 307g − 130g
2 10
307g
−130g
177g

h. 307g − 234g
2 10
307g
−234g
73g

i. 807g − 732g
7 10
807g
−732g
75g

j. 2km 770m − 1km 455m
1km 770m
−455m
1km 315m

k. 3kg 924g − 2kg 893g
2kg 924g
−893g
2kg 31g



2. The total weight of 3 books is shown to the right. If 2 books weigh 233 grams, how much does the third book weigh? Use a tape diagram to model the problem.

405g
233g ?

405g
−233g
172g

The third book weighs 172g.

3. The chart to the right shows the lengths of 3 movies.

The Lost Ship	117 minutes
Magical Forests	145 minutes
Champions	? minutes

a. The movie Champions is 22 minutes shorter than The Lost Ship. How long is Champions?

117 minutes
− 22 minutes
095 minutes

Champions is 95 minutes long.

b. How much longer is Magical Forests than Champions?

145 minutes
− 95 minutes
050 minutes

Magical Forests is 50 minutes longer than Champions

4. The total length of a rope is 208 cm. Scott cuts it into 3 pieces. The first piece is 80 cm long. The second piece is 94 cm long. How long is the third piece of rope?

208cm
94cm 94cm ?

94cm
+80cm
174cm

208cm
−174cm
034cm

The third piece of rope is 34 cm long.

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.

A STORY OF UNITS | Lesson 18 Exit Ticket | 3•2

Name _____ Date _____

1. Solve the subtraction problems below.

   a. 381 mL – 146 mL b. 730 m – 426 m c. 509 kg – 384 kg

2. The total length of a banner is 408 centimeters. Carly paints it in 3 sections. The first 2 sections she paints are 187 centimeters long altogether. How long is the third section?