

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.



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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.

The image shows a transition from a presentation viewer (Screen A) to the Google Slides editor (Screen B). Screen A displays a blue slide with the text "ReadyGEN™ in Action" and "3rd Grade Unit 3, Module A Lesson 1". A red box highlights the "pop-out" button in the top right corner of the viewer. A red arrow points from this button to Screen B. Screen B shows the Google Slides editor interface for a file named "Gr3(2) U3MAL1 Sample Lesson.pptx". The "File" menu is open, and the "Make a copy..." option is highlighted with a red box. A "Copy document" dialog box is open, showing a text input field with "Rename Your Presentation" and "OK" and "Cancel" buttons. The background of Screen B is the same blue slide as in Screen A.

Screen A

ReadyGEN™ in Action

3rd Grade
Unit 3, Module A
Lesson 1

Screen B

Gr3(2) U3MAL1 Sample Lesson.pptx

File Edit View Insert Slide Format Arrange Tools Table Help Last edit was yesterday at

Share...

New

Open...

Rename...

Make a copy...

Organize...

Move to trash

Import slides...

See revision history

Language

Download as

Publish to the web...

Email collaborators...

Email as attachment...

Page setup...

Print settings and preview

Print

Copy document

Enter a new document name:

Rename Your Presentation

Comments will not be copied to the new document.

Share it with the same people

OK Cancel

ReadyGEN™ in Action

3rd Grade
Unit 3, Module A
Lesson 1

“pop-out”

Icons



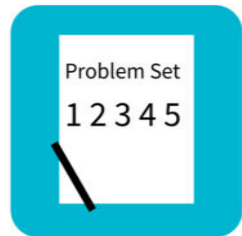
Read, Draw, Write



Learning Target



Personal White Board



Problem Set



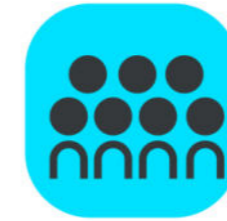
Manipulatives Needed



Fluency



Think Pair Share



Whole Class



Individual



Partner



Small Group



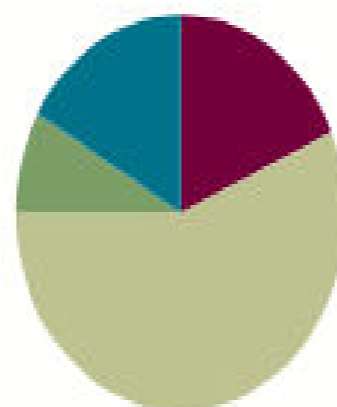
Small Group Time

Lesson 18

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

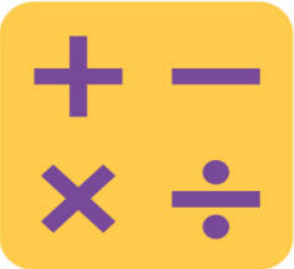
Suggested Lesson Structure

■ 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

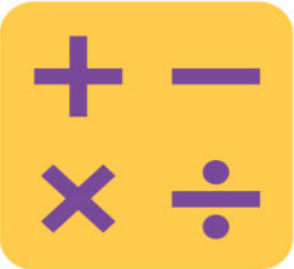
Fours to 40

Sixes to 60

Sevens to 70

Eights to 80

Nines to 90



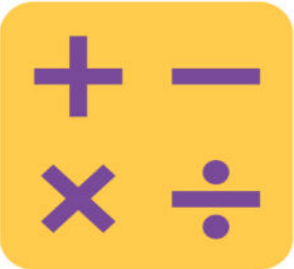
Subtract Mentally

Say the number sentence in units of one.

$$10 - 3 =$$

$$11 - 3 =$$

$$61 - 3 =$$



Subtract Mentally

Say the number sentence in units of ten.

$$100 - 30 =$$

$$110 - 30 =$$

$$610 - 30 =$$



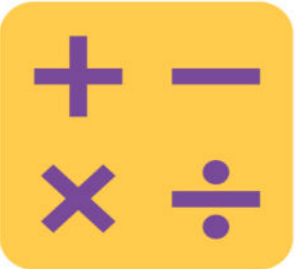
Estimate and Add



Say:

$$38 + 23 =$$

Round each number to nearest ten.



Estimate and Add



$$40 + 20 =$$

$$38 + 23 \approx 40 + 20$$

$$38 + 23 =$$



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.

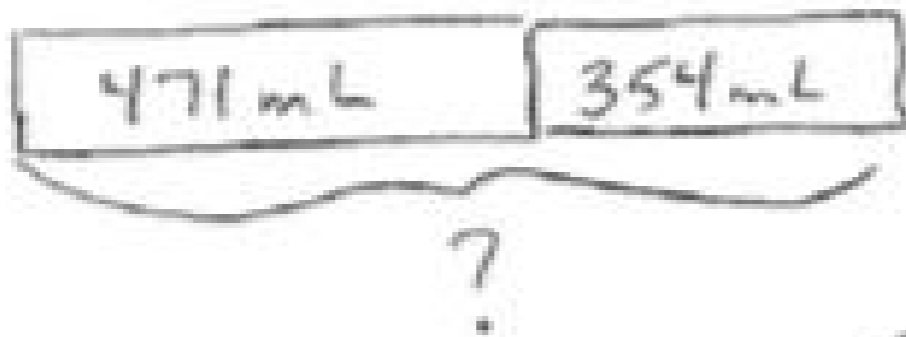
How many milliliters of water does Tara bring on her hike?



Application Problem

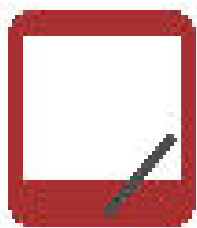
Tara brings 2 bottles of water on her hike. The first bottle has 471 milliliters of water, and the second bottle has 354 milliliters of water.

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



$$\begin{array}{r} 471 \text{ mL} \\ + 354 \text{ mL} \\ \hline 825 \text{ mL} \end{array}$$

Tara brings 825 mL of water.



Place Value
Template

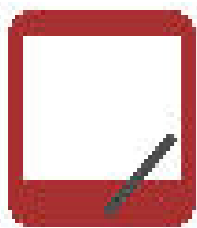
Concept Development

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

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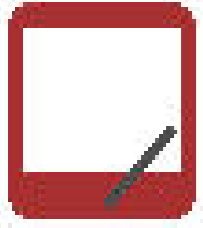
Place Value
Template

Concept Development

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?

A place value chart with four columns: Hundreds, Tens, Ones, and Tenths. The chart is used to represent the number 132. The Hundreds column contains one hundred block. The Tens column contains three ten blocks. The Ones column contains two one blocks. A box is drawn around the two one blocks in the Ones column and the two ten blocks in the Tens column, with a line pointing to the Tens column, indicating a regrouping operation. Below the chart is a subtraction problem:

$$\begin{array}{r} 132 \text{ mL} \\ - 115 \text{ mL} \\ \hline 17 \text{ mL} \end{array}$$



Place Value
Template

Concept Development

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?

507g
345g

?

162g

$$\begin{array}{r} 4 \text{ } 10 \\ \cancel{507} \\ - 345 \\ \hline 162 \end{array}$$

Nooran bought 162 grams more on Tuesday than on Thursday.



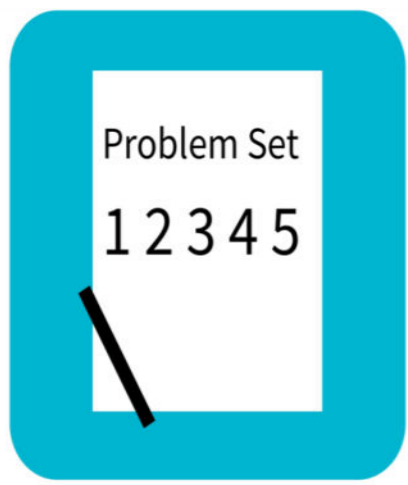
Concept Development

Further practice:

$$513 \text{ cm} - 241 \text{ cm} =$$

$$760 \text{ g} - 546 \text{ g} =$$

$$506 \text{ mL} - 435 \text{ mL} =$$



Problem Set

Problem Set (10 minutes)

A STORY OF UNITS

Lesson 18 Problem Set 3•2

Name _____

Date _____

1. Solve the subtraction problems below.

a. $60 \text{ mL} - 24 \text{ mL}$

b. $360 \text{ mL} - 24 \text{ mL}$

c. $360 \text{ mL} - 224 \text{ mL}$

d. $518 \text{ cm} - 21 \text{ cm}$

e. $629 \text{ cm} - 268 \text{ cm}$

A STORY OF UNITS

Lesson 18 Problem Set 3•2

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. $60\text{ mL} - 24\text{ mL}$
 $30 \overset{30}{\cancel{60}} - 24 = 36\text{ mL}$
 $30 + 6 = 36\text{ mL}$

b. $360\text{ mL} - 24\text{ mL}$
 $330 \overset{30}{\cancel{360}} - 24 = 336\text{ mL}$
 $330 + 6 = 336\text{ mL}$

c. $360\text{ mL} - 224\text{ mL}$
 $350 \overset{10}{\cancel{360}} - 224 = 136\text{ mL}$

d. $518\text{ cm} - 21\text{ cm}$
 $4 \overset{10}{\cancel{51}} \overset{8}{\cancel{8}} - 21 = 497\text{ cm}$

e. $829\text{ cm} - 268\text{ cm}$
 $5 \overset{10}{\cancel{82}} \overset{9}{\cancel{9}} - 268 = 561\text{ cm}$

f. $938\text{ cm} - 440\text{ cm}$
 $8 \overset{10}{\cancel{93}} \overset{8}{\cancel{8}} - 440 = 498\text{ cm}$

g. $307\text{ g} - 130\text{ g}$
 $2 \overset{10}{\cancel{30}} \overset{7}{\cancel{7}} - 130 = 177\text{ g}$

h. $307\text{ g} - 234\text{ g}$
 $2 \overset{10}{\cancel{30}} \overset{7}{\cancel{7}} - 234 = 73\text{ g}$

i. $807\text{ g} - 732\text{ g}$
 $7 \overset{10}{\cancel{80}} \overset{7}{\cancel{7}} - 732 = 75\text{ g}$

j. $2\text{ km } 700\text{ m} - 3\text{ km } 455\text{ m}$
 $1 \overset{10}{\cancel{2}} \overset{70}{\cancel{700}} - 3 \overset{10}{\cancel{4}} \overset{5}{\cancel{55}} = 1\text{ km } 315\text{ m}$

k. $3\text{ kg } 504\text{ g} - 746\text{ g}$
 $2 \overset{10}{\cancel{3}} \overset{50}{\cancel{504}} - 746 = 2\text{ kg } 318\text{ g}$

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 explain the problem.

405 g
 233 g
 172 g
The third book weighs 172g.

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

The Last Ship	117 minutes
Magical Forests	145 minutes
Champions	7 minutes

a. The movie Champions is 22 minutes shorter than The Last Ship. How long is Champions?
 117 minutes
 $- 22\text{ minutes}$
 95 minutes
Champions is 95 minutes long.

b. How much longer is Magical Forests than Champions?
 145 minutes
 $- 95\text{ minutes}$
 50 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 90 cm long. The second piece is 94 cm long. How long is the third piece of rope?
 208 cm
 90 cm
 94 cm
 174 cm
 208 cm
 $- 174\text{ cm}$
 34 cm
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.

Name _____

Date _____

1. Solve the subtraction problems below.

a. $381 \text{ mL} - 146 \text{ mL}$

b. $730 \text{ m} - 426 \text{ m}$

c. $509 \text{ kg} - 384 \text{ kg}$

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?

