# Eureka Math

## 2nd Grade
## Module 4
## Lesson 19

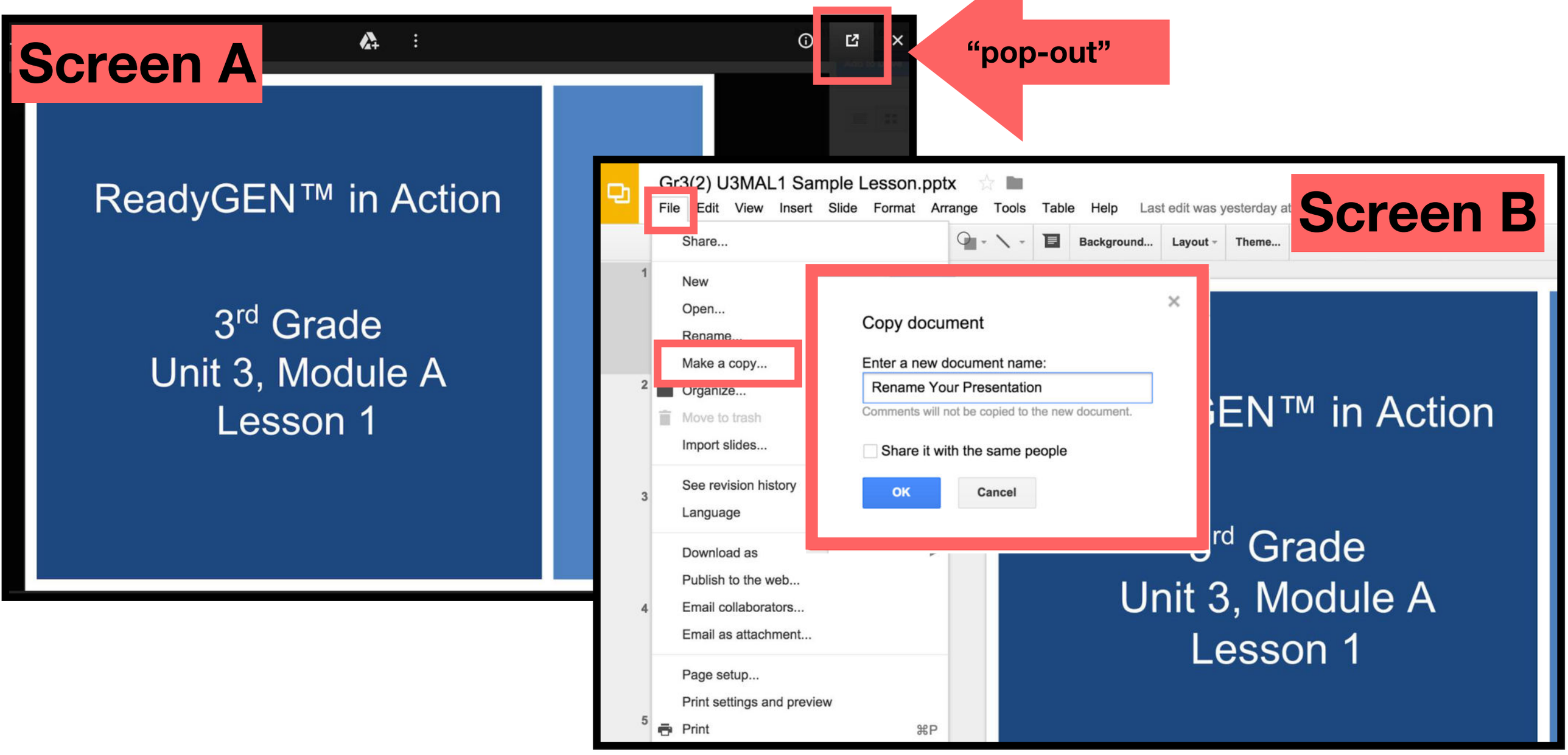
At the request of elementary teachers, a team of Bethel & Sumner educators met as a committee to create Eureka slideshow presentations. These presentations are not meant as a script, nor are they required to be used. Please customize as needed. Thank you to the many educators who contributed to this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

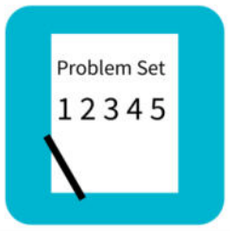


# Icons


Read, Draw, Write

Learning Target

Personal White Board

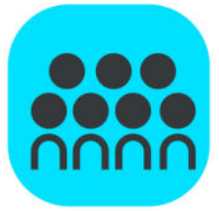



Problem Set

Manipulatives Needed

Fluency

Think Pair Share



Whole Class

Individual

Partner

Small Group

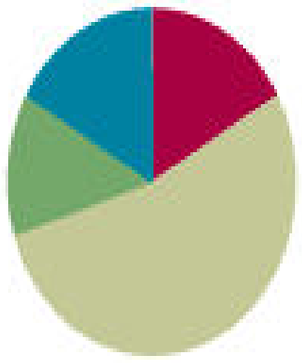
Small Group Time

# Lesson 19

Objective: Relate manipulative representations to a written method.

**Suggested Lesson Structure**

| | | |
|---|---|---|
| ■ | Fluency Practice | (10 minutes) |
| ■ | Application Problem | (8 minutes) |
| ■ | Concept Development | (32 minutes) |
| ■ | Student Debrief | (10 minutes) |
| | **Total Time** | **(60 minutes)** |



I can relate manipulative representations to a written method.

# Materials Needed:

Fluency:
(T) Addition flash cards (fluency template)

**Concept Development:**

- (T) Place value disks,
- (T) Unlabeled hundreds place value chart (Lesson 18 Template)
- (S) Per pair: personal white board,
- (S) Unlabeled hundreds place value chart (Lesson 18 Template),
- (S)Place value disks (2 hundreds, 18 tens, 18 ones),
- (S)Place value disks (Lesson 6 Template)

# Addition Fact Flashcards

# Adding Ones to Make Tens

What is 1 more than 29 ones?

How many tens are in 30 ones?

2 more than 58 ones.

How many tens are in 60 ones?

# Adding Tens and Ones

60 + 20 = _____

How many tens are in 30 ones?

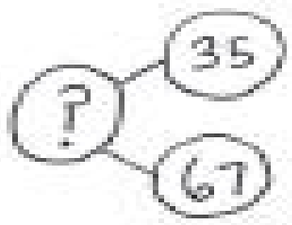
6 + 4 is…?

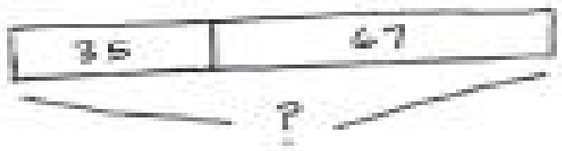
80 + 10 is…?

66 + 24 is…?

# Application problems

There are 35 note cards in one box. There are 67 note cards in another box. How many note cards are there in all?




35 + 67
5 ^ 62
40 + 62 = 102

There are 102 note cards in all.

# CONCEPT DEVELOPMENT

Partner A, write 54 + 68 on your personal white board.

$$\begin{array}{r} 54 \\ +68 \\ \hline \end{array}$$

Whisper-count as Partner B models 54 and 68 on your place value chart.

Remember to place your disks from left to right and create 5-groups whenever possible.

Where do we begin adding?

# CONCEPT DEVELOPMENT

Look at your ones column. Can we make a unit of 10?

$$\begin{array}{r} 54 \\ +68 \\ \hline \end{array}$$

Now look at the vertical form. Use place value language to explain to your partner how you know, just by looking at the digits in the ones place, if you need to rename (or bundle) the ones.

Rename 12 ones on your place value chart. How do we show this in vertical form? Partner A, let's record that.

# CONCEPT DEVELOPMENT

This time, look at the digits in the tens place before using the disks. Tell your partner whether you'll need to rename, and explain why.

54
+68

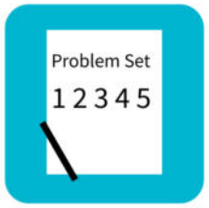
Rename 12 tens on your place value chart.

How do we show this with the algorithm?

Let's record that.  How many hundreds do we have?

Talk with your partner. Explain each change you made on your place value chart and how you showed each step in vertical form.

Partners, it's time to solve some addition problems on your own! Be sure to explain how each change you make on the place value chart matches each step in vertical form.




# Problem Set



Name _____ Date _____

1. Solve the following problems using the vertical form, your place value chart, and place value disks. Bundle a ten or hundred, if needed.

| | |
|---|---|
| a. 72 + 19 | b. 28 + 91 |
| c. 68 + 61 | d. 97 + 35 |

# Debrief

For Problems 1(a) and (b), did you compose a ten? A hundred? How did you show it on your place value chart?

Explain to your partner how to solve Problems 1(c) and (d). How did you show a new unit of ten or hundred on your place value chart and in vertical form?

What do you notice about the totals in Problems 1(e) and 1(f)?

# Debrief

For Problem 1(e), what did you need to be sure to do when you were solving 68 + 75 using vertical form? Did anyone try to solve this mentally? How?

What is the answer for Problem 1(f), 96 + 47?
How many tens and ones are in the answer
____ = ____ tens ____ ones
How did you rename those tens in the algorithm?

Look again at Problem 1(h), 146 + 54. How could you have used a number bond as a simplifying strategy to solve this problem?

# Exit Ticket



Name _____ Date _____

Solve the following problems using the vertical form, your place value chart, and place value disks. Bundle a ten or hundred, if needed.

1. 47 + 85

2. 128 + 39