Eureka Math

2nd Grade
Module 5
Lesson 11

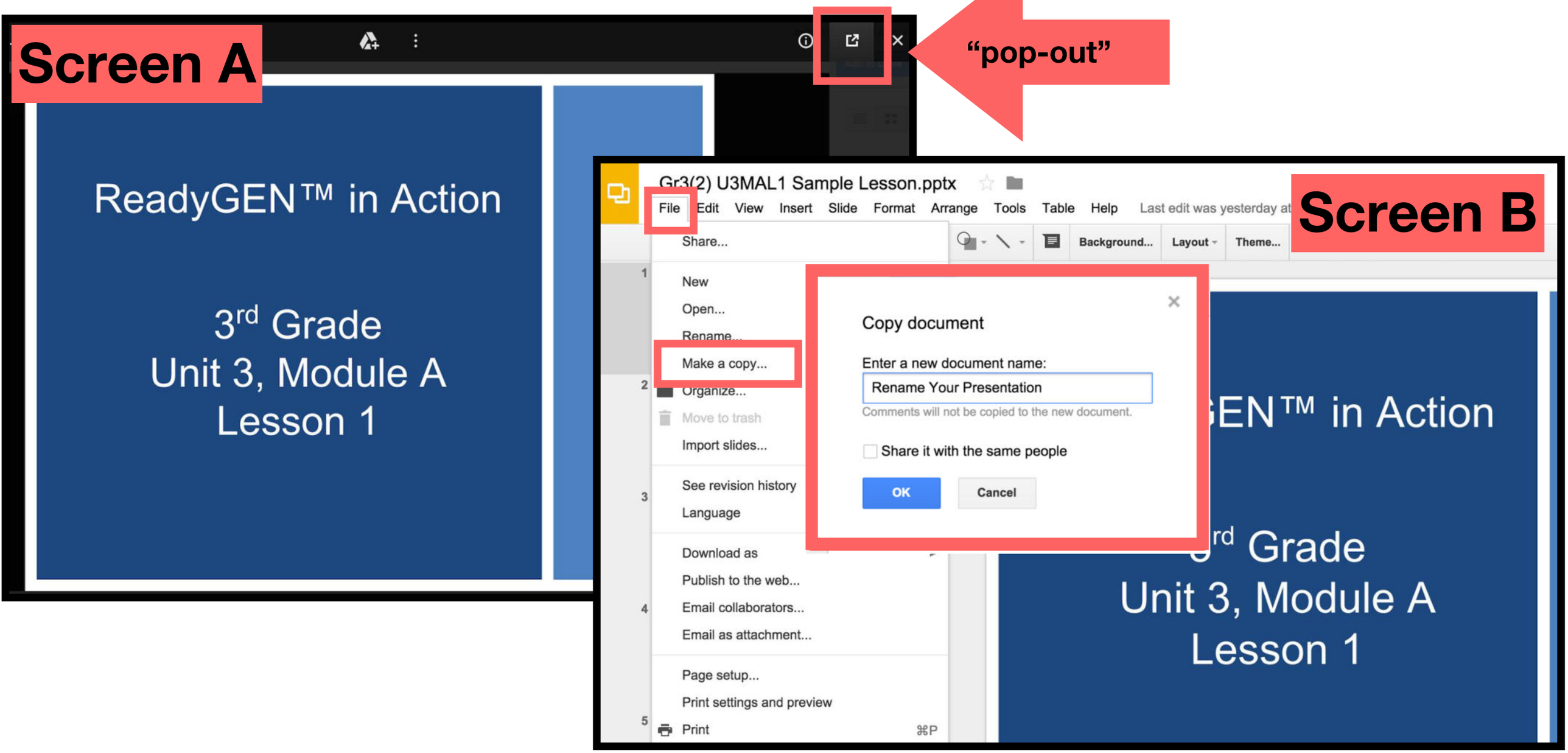
At the request of elementary teachers, a team of Bethel & Sumner educators met as a committee to create Eureka slideshow presentations. These presentations are not meant as a script, nor are they required to be used. Please customize as needed. Thank you to the many educators who contributed to this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

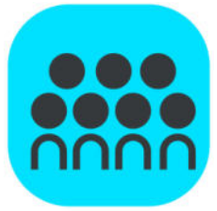
Personal White Board

Problem Set

Manipulatives Needed

Fluency

Think Pair Share



Whole Class

Individual

Partner

Small Group

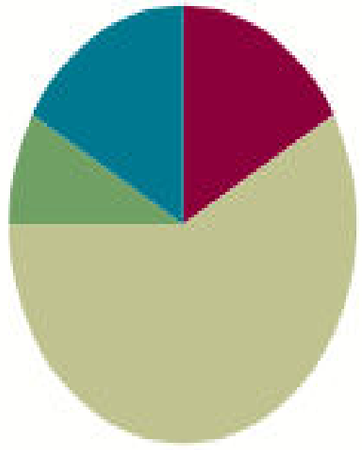
Small Group Time

Lesson 11

Objective: Use math drawings to represent additions with up to two compositions and relate drawings to the addition algorithm.

Suggested Lesson Structure

Application Problem	(5 minutes)
Fluency Practice	(10 minutes)
Concept Development	(35 minutes)
Student Debrief	(10 minutes)
Total Time	**(60 minutes)**



I can use math drawings to represent additions with up to two compositions.

Materials Needed:

Fluency

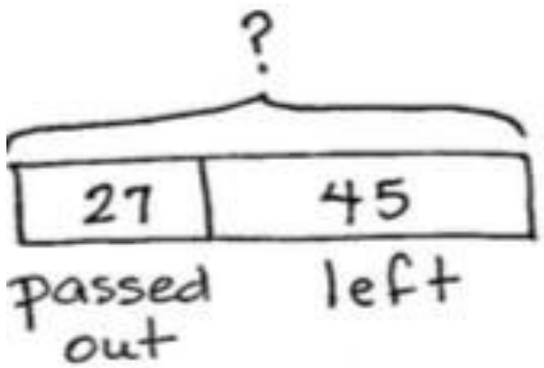
- (S) White boards

Concept Development:

- (T) Place value disks (9 hundreds, 18 tens, 18 ones),
- (S) personal white board
- (S) Place value disks (9 hundreds, 18 tens, 18 ones),
- (S) Unlabeled hundreds place value chart (Lesson 1 Template 2),

Application problems

Mr. Arnold has a box of pencils. He passes out 27 pencils and has 45 left. How many pencils did Mr. Arnold have in the beginning?



45
+27

72

He had 72 pencils in the beginning.

Place Value

157

Say in standard form.

Say in unit form.

Say in unit form with tens and ones

Say in unit form with hundreds and ones

Say in expanded form.

How many ones?

How many tens?

What digit is in the ones place

Say Ten Counting

3 ones + 4 ones?

6 ones + 4 ones?

What is another name for 10 ones?

When we make a ten, let's say the number in tens and ones

6 ones + 5 ones.

7 ones + 4 ones

6 ones + 7 ones

8 ones + 4 ones

4 ones + 4 ones + 4 ones

5 ones + 3 ones + 4 ones

Compensation

54 + 29 = ____

How much more does 29 need to make the next ten

Where can 29 get 1 more?

Take 1 from 54 and give it to 29. Say the number sentence.

39 + 46 = ____

65 + 39 = ____

79 + 46 = ____

128 + 52 = ____

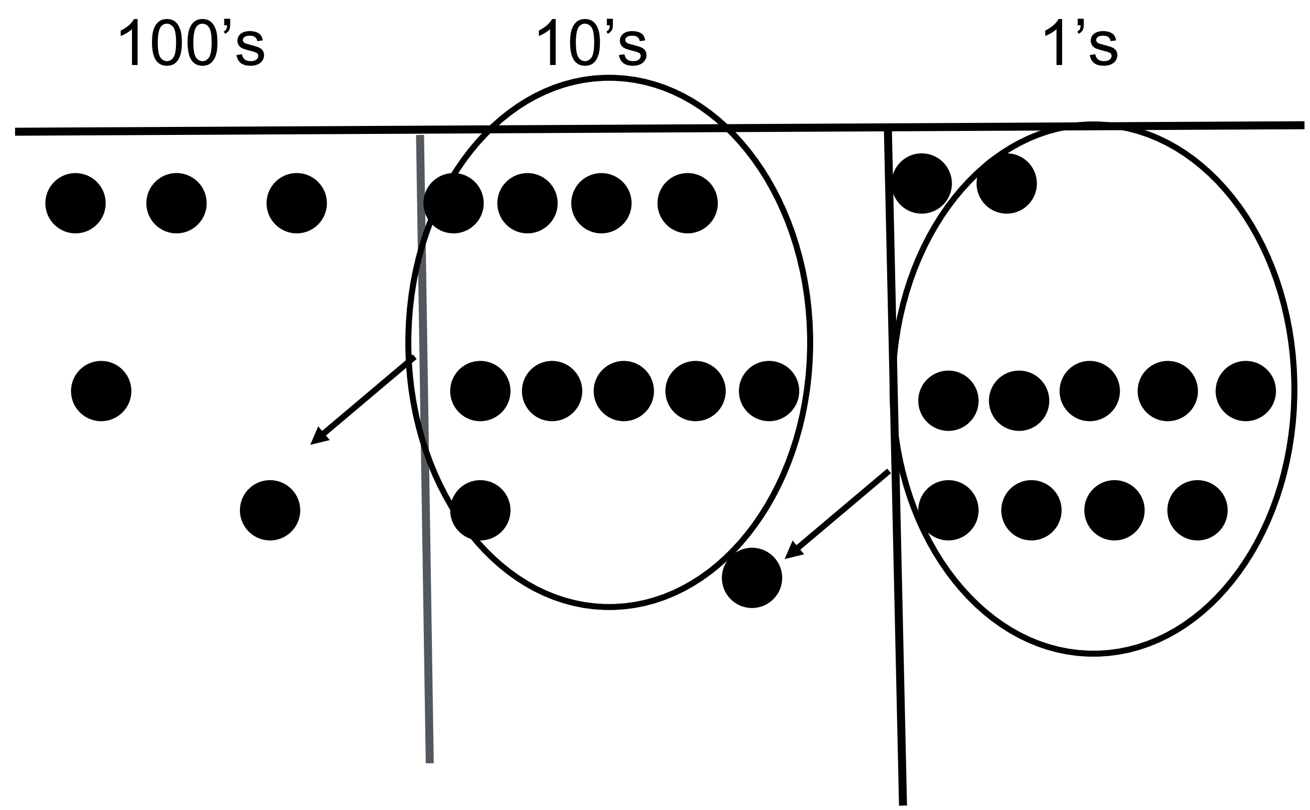
145 + 38 = ____

155 + 98 = ____

CONCEPT DEVELOPMENT

Problem 1: 342 + 169

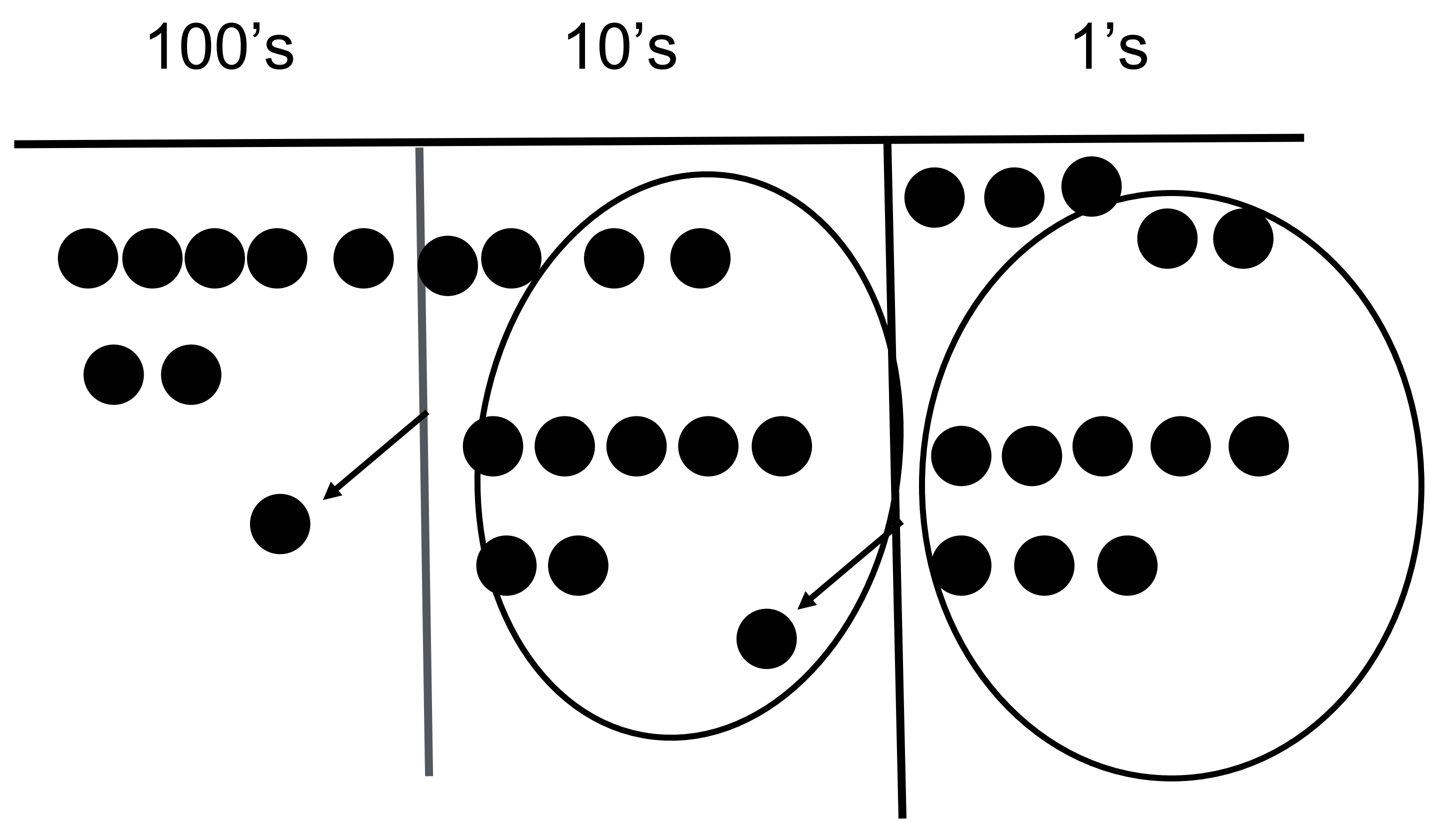
$$\begin{array}{r} 342 \\ +\ {}_{1}1{}_{1}69 \\ \hline 511 \end{array}$$



CONCEPT DEVELOPMENT

Problem 2: 545 + 278

```
   545
+  278
  1 1
  8 13
```



Problem Set

Name _____ Date _____

1. Solve using vertical form, and draw chips on the place value chart. Bundle as needed.

hundreds	tens	ones

a. 227 + 183 = _____

hundreds	tens	ones

b. 424 + 288 = _____

Debrief

For Problem 1(a),use place value language to explain to your partner how your model matches the steps of the algorithm.

Think of the word renaming. A friend says that the Say Ten answer to Problem 1(b), 424 + 288, is 6 hundreds 10 tens 12. How did you use bundling to rename the solution? What is your solution the Say Ten way?

For Problem 1(c),where did you write the new ten or hundred in the vertical form? How did it match your chip model?

Debrief

Explain to your partner how you solved Problems 2(a) and 2(b). What significant differences do you notice about the chip model and the vertical form for these two problems?

How does having two three-digit addends (as opposed to two-digit) change the way you model and solve the problem?

What important math vocabulary have we used recently to talk about making a new unit? (Compose, bundle, rename, change.)

Exit Ticket

Name _____ Date _____

Solve using vertical form, and draw chips on a place value chart. Bundle as needed.

1. 267 + 356 = _____

2. 623 + 279 = _____