Eureka Math

2nd Grade
Module 4
Lesson 22

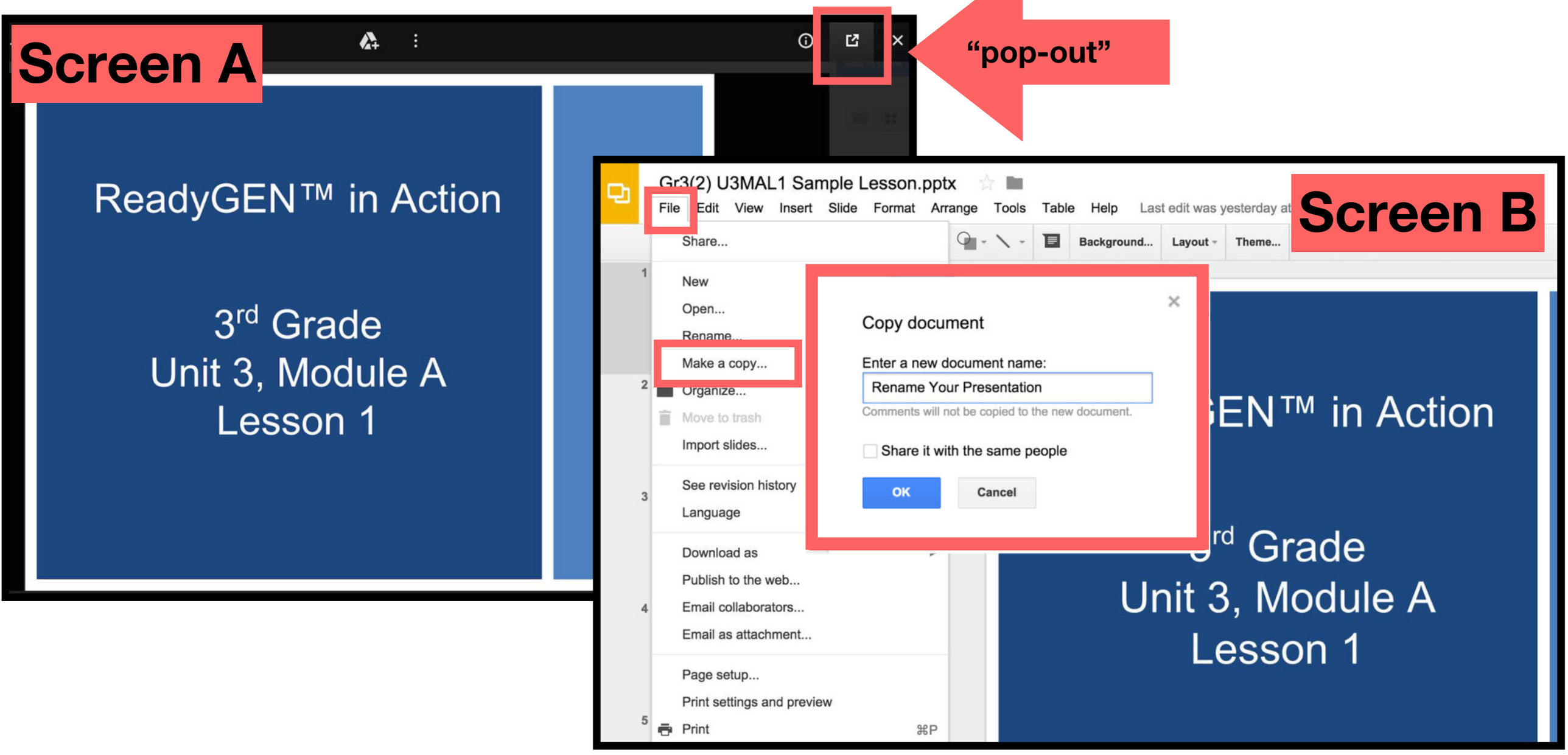
At the request of elementary teachers, a team of Bethel & Sumner educators met as a committee to create Eureka slideshow presentations. These presentations are not meant as a script, nor are they required to be used. Please customize as needed. Thank you to the many educators who contributed to this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

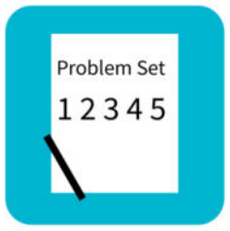


Icons

Read, Draw, Write

Learning Target

Personal White Board

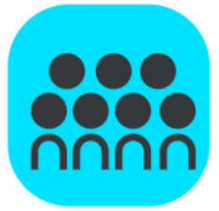


Problem Set

Manipulatives Needed

Fluency

Think Pair Share



Whole Class

Individual

Partner

Small Group

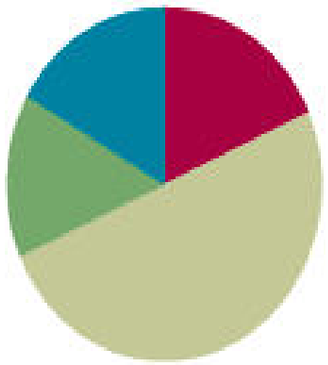
Small Group Time

Lesson 22

Objective: Solve additions with up to four addends with totals within 200 with and without two compositions of larger units.

Suggested Lesson Structure

Fluency Practice	(11 minutes)
Application Problem	(9 minutes)
Concept Development	(30 minutes)
Student Debrief	(10 minutes)
Total Time	**(60 minutes)**



I can solve additions with up to four addends with totals within 200 with and without two compositions of larger units.

Materials Needed:

Fluency:
(T) Addition flash cards (fluency template)
(S) White board

Concept Development:

- (S) White board

Addition Fact Flashcards

Subtraction from Tens

I say a basic fact. You add 10 to the whole and continue until I say to stop. So, after 10 – 6, you would then solve 20 – 6.

Go as high as you can before I give the signal to stop. Let’s begin. 10 – 6.

Crossing a Ten

8 + ____ = 10. How many more does 8 need to make 10?

Complete the number sentence.

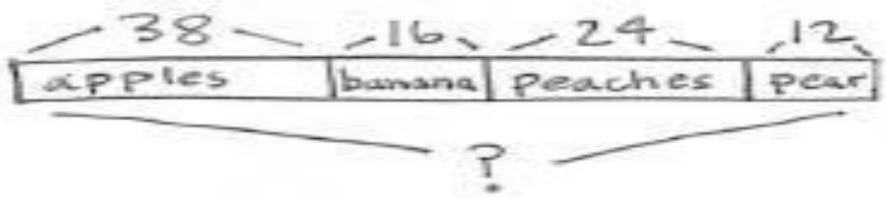
10 + 1

8 + 2 + 1

8 + 3

Application problems

There are 38 apples, 16 bananas, 24 peaches, and 12 pears in the fruit basket. How many pieces of fruit are in the basket?



38 + 16 + 24 + 12

30 8 10 6 4 20 10 2

10

38 + 12 + 40

30 8 2 10

10

50 + 40 = 90

There are 90 pieces of fruit in the basket.

CONCEPT DEVELOPMENT

3 + 7 + 6

Raise your hand when you think you know the answer.

What helped you solve so quickly?

23 + 27 + 16

Don’t use vertical addition to solve; use mental math.
Talk to your partner using place value language to explain how you can solve this problem mentally.
Then, show your work.

123 + 27 + 16

Talk with your partner. How is this problem the same as and different from the first two?

CONCEPT DEVELOPMENT

1 + 3 + 9 + 7 Now, we're adding four addends. Talk with your partner about how you can solve this easily.

Does this mean we can add numbers in any order?

31 + 23 + 19 + 47

How is this problem the same as the first problem? How is it different?

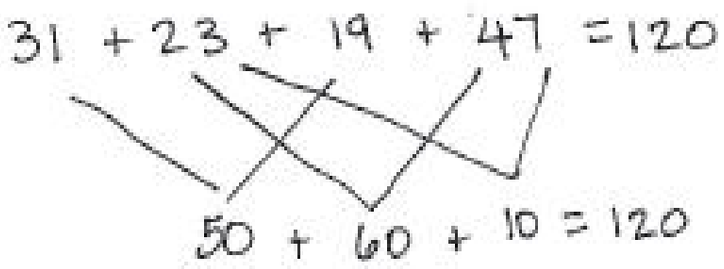
Choose a strategy to solve. Then, use place value language to explain your strategy to your partner.

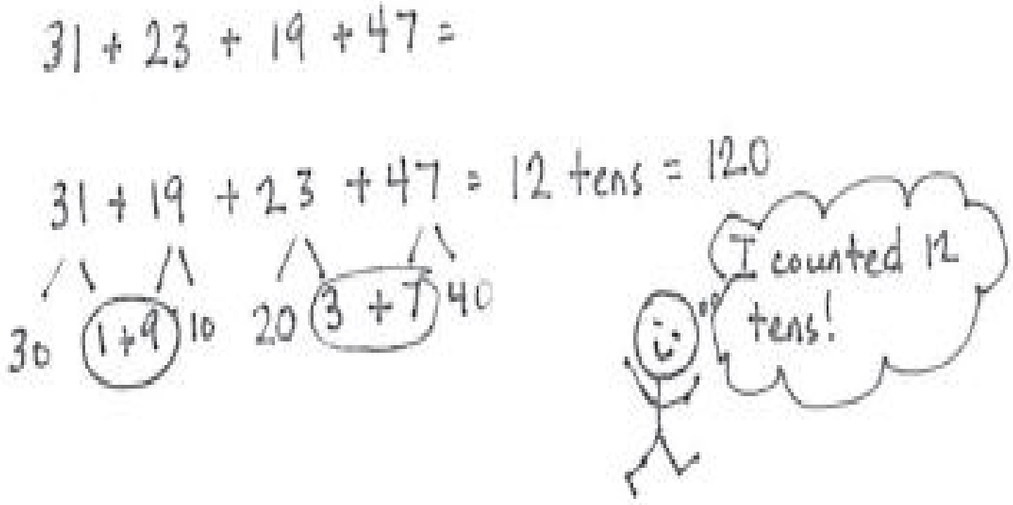
CONCEPT DEVELOPMENT

1 + 3 + 9 + 7
31 + 23 + 19 + 47

Who would like to show his work and explain his thinking?

How is this problem the same as the first problem?
How is it different?





Problem Set

Name _____ Date _____

1. Look to make 10 ones or 10 tens to solve the following problems using place value strategies.

a. 5 + 5 + 7= _____	25 + 25 + 17= _____	125 + 25 + 17= _____

Debrief

For Problems 1(a)–(c), how are the three columns related? How do the columns build upon each other?

In Problem 1(a), how many tens are in 125 + 25 + 17? How do you know?

In Problem 1(b), how did you group the tens and ones to solve an easy problem? What did you do with 15 ones?

Debrief

In Problem 1(c), how did you change the order of the addends to make a simpler problem to solve?

How did you solve Problem 2 differently from Josh and Keith? Did you change the order of the addends? Did you make 10 ones? How about 10 tens?

Could we use the vertical method to solve these problems?

Exit Ticket

Name _____ Date _____

Look to make 10 ones or 10 tens to solve the following problems using place value strategies.

1. 17 + 33 + 48

2. 35 + 56 + 89 + 18