Eureka Math

2nd Grade
Module 5
Lesson 8

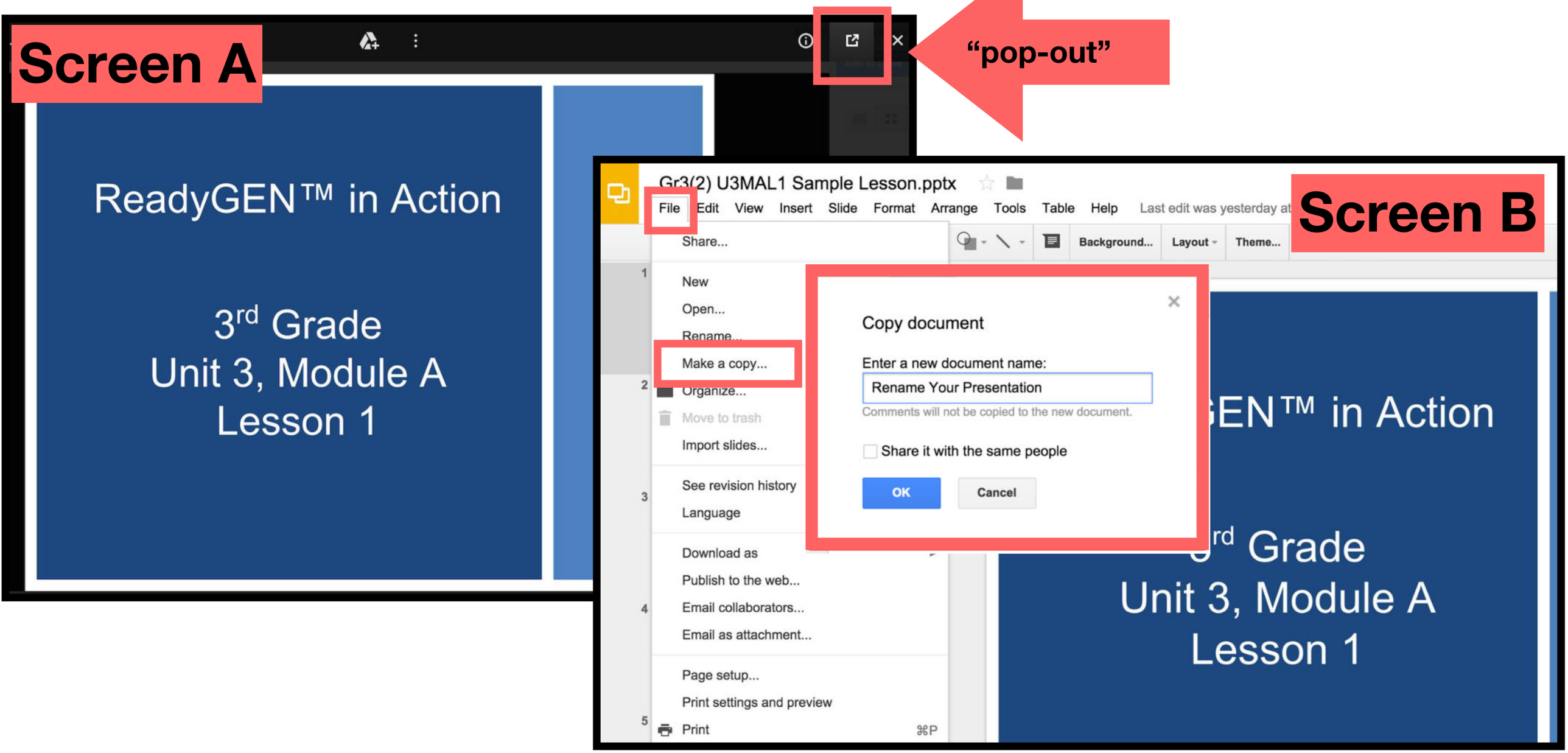
At the request of elementary teachers, a team of Bethel & Sumner educators met as a committee to create Eureka slideshow presentations. These presentations are not meant as a script, nor are they required to be used. Please customize as needed. Thank you to the many educators who contributed to this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

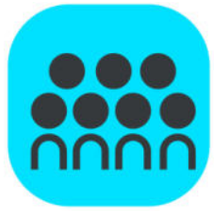
Personal White Board

Problem Set

Manipulatives Needed

Fluency

Think Pair Share



Whole Class

Individual

Partner

Small Group

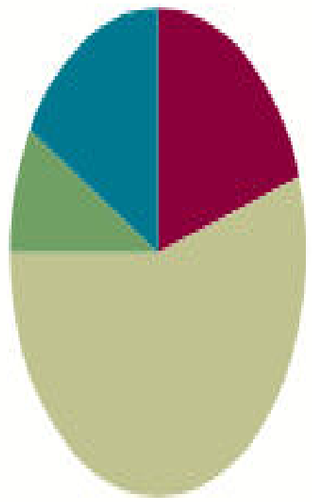
Small Group Time

Lesson 8

Objective: Relate manipulative representations to the addition algorithm.

Suggested Lesson Structure

Application Problem	(5 minutes)
Fluency Practice	(12 minutes)
Concept Development	(33 minutes)
Student Debrief	(10 minutes)
Total Time	**(60 minutes)**



I can relate manipulative representations to the addition algorithm.

Materials Needed:

Fluency

- (T) White boards

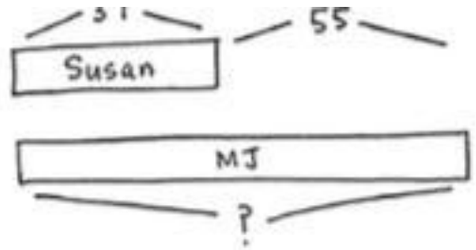
Concept Development:

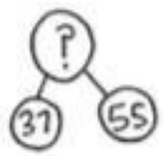
- (T) Place value disks (9 hundreds, 18 tens, 18 ones),
- (S) personal white board
- (S) Place value disks (9 hundreds, 18 tens, 18 ones),
- (S) Unlabeled hundreds place value chart (Lesson 1 Template 2),

Application problems

Susan has 37 pennies.
M. J. has 55 more pennies than Susan.
a. How many pennies does M. J. have?
b. How many pennies do they have altogether?

a.



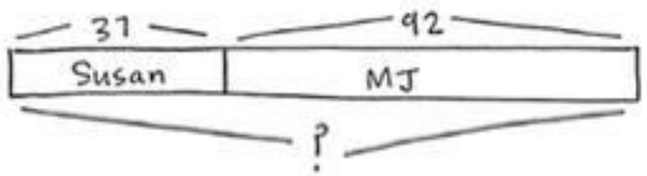


37+55=92

37 +50→ 87 +3→ 90 +2→ 92

MJ has 92 pennies.

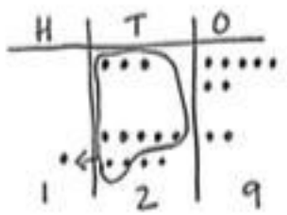
b.



37+92

Altogether Susan and MJ have 129 pennies.

$$\begin{array}{r} 37 \\ +\,92 \\ \hline 129 \end{array}$$



Adding Common Units

2 puppies plus 1 puppy is....?

3 dogs, 2 puppies, plus 1 puppy is ....?

303

303 + 202 = ____. Say the addition sentence and answer in unit form.

Sprint

A

Number Correct: _____

Two-Digit Addition

1.	38 + 1 =		23.	85 + 7 =	
2.	47 + 2 =		24.	85 + 9 =	
3.	56 + 3 =		25.	76 + 4 =	
4.	65 + 4 =		26.	76 + 5 =	
5.	31 + 8 =		27.	76 + 6 =	
6.	42 + 7 =		28.	76 + 9 =	
7.	53 + 6 =		29.	64 + 6 =	
8.	64 + 5 =		30.	64 + 7 =	
9.	49 + 1 =		31.	76 + 8 =	
10.	49 + 2 =		32.	43 + 7 =	

CONCEPT DEVELOPMENT

200 + 300? Explain your strategy

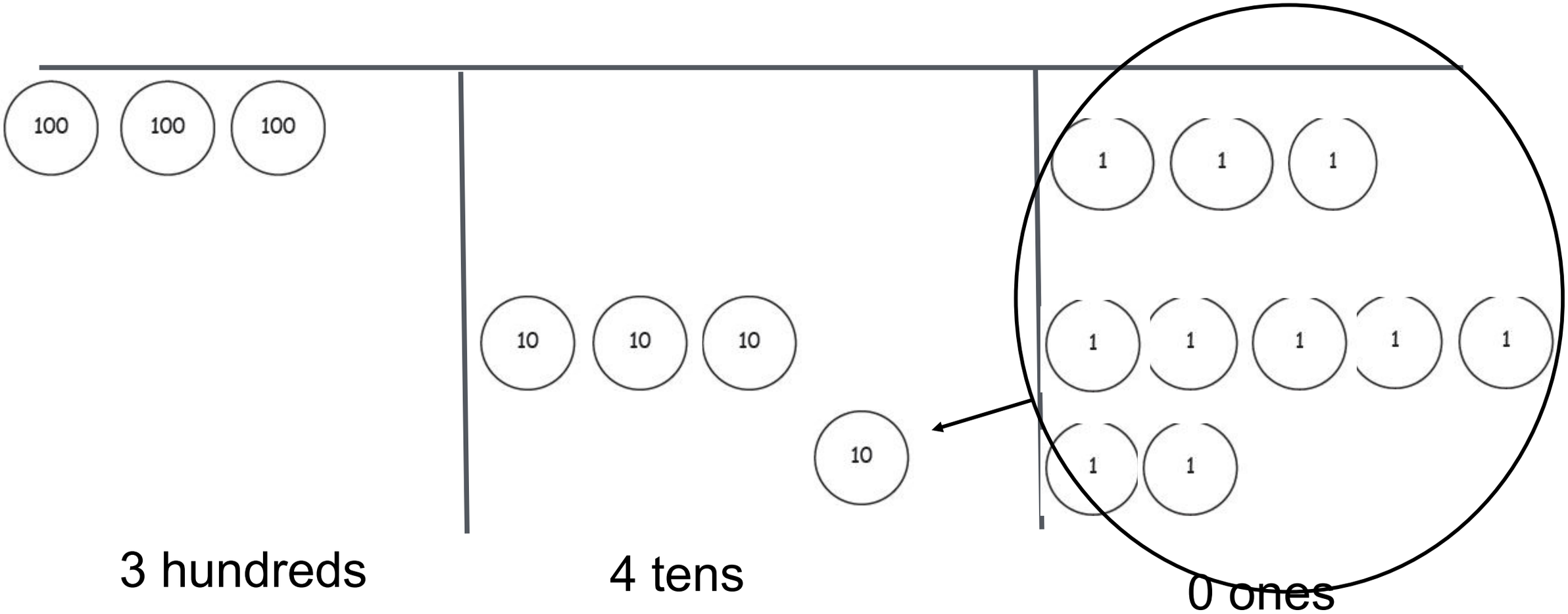
440 + 200? Explain your strategy

287 + 314?

CONCEPT DEVELOPMENT

Problem 1: 303 + 37

$$\begin{array}{r} 303 \\ +\ \underline{37} \end{array}$$



CONCEPT DEVELOPMENT

Problem 2: 211 + 95

```
  211
+  95
 1
-----
 3 0 6
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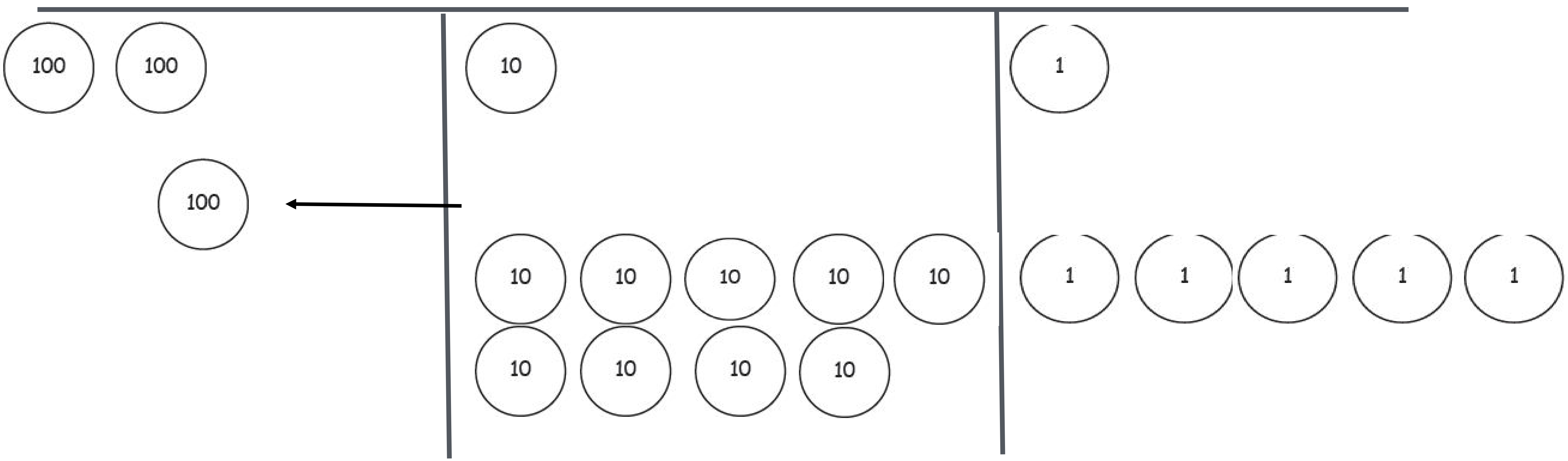

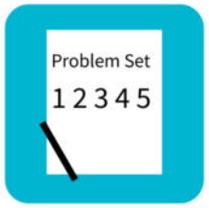

Problem Set

Name _____ Date _____

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

a. 301 + 49	b. 402 + 48
c. 315 + 93	d. 216 + 192
e. 545 + 346	f. 565 + 226

Debrief

How did you solve Problem 1(a) and (b),
301 + 49 and 402 + 48? Did you begin by adding the ones only? Why didn't you need to solve with place value disks? How can you check your mental math? Where did you write the new unit?

Explain to your partner how you used manipulatives to solve Problem 1(c) and (d). Did you need to bundle a new ten or hundred? How did you know? How did you show it using the algorithm?

For Problem1(e) and (f),how did your work with the place value disks match the vertical form? How did you show new groups below? How were these problems different from the ones in Problem 1(c) and (d)?

Debrief

What do you notice about the answers for Problem 1(g) and (h)? If the addends in each problem are different, why are the answers the same?

Did you notice any patterns in Problem 2 that helped you solve efficiently?

In Problem 2,did you use a place value chart and place value disks every time you composed a new unit of ten or a hundred? How do you know when you should solve using a place value chart and place value disks, a simplifying strategy, or mental math?

Exit Ticket

Name _____ Date _____

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

1. 378 + 113

2. 178 + 141