Eureka Math

2nd Grade Module 5 Lesson 9

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Directions for customizing presentations are available on the next slide.



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Reflecting your Teaching Style and Learning Needs of Your Students

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- > Click on the "pop-out" button in the upper right hand corner to change the view.
- \succ 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



















Manipulatives Needed







Lesson 9 Objective: Relate manipulative representations to the addition algorithm.

Suggested Lesson Structure

Applicati	ion Problem
Fluency	Practice
Concept	Development
Student	Debrief
Total Tin	ne

(6 minutes) (10 minutes) (34 minutes) (10 minutes) (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



The table to the right represents the halftime score at a basketball game.

The red team scored 19 points in the second half.

The yellow team scored 13 points in the second half.

a. Who won the game?

b. By how much did that team win?

Team	Score
Red team	63 points
Yellow team	71 points





The table to the right represents the halftime score at a basketball game. The red team scored 19 points in the second half. The yellow team scored 13 points in the second half.

a. Who won the game?

b. By how much did that team win?

A. Red 244 half 241 half 341 63 + 19 71 + 13 $11 \xrightarrow{10} 981 \xrightarrow{13} 984$ Yellow 104 half 541 41 + 20 = 82The yellow team wen the game. They scored 84 while the red team scored 82. h. $\frac{92}{red}$? 84-92=2Velton The yellow team won by 2 points.



Making the Next Ten to Add



When I say 9 + 4, you say 10 + 3. Ready? 9 + 4

19 + 4

9 + 6

19 + 6





4 – Add Common Units

545 Say the number in unit form.

545 + 232 = _____ Say the addition sentence, and answer in unit form.

Write the addition sentence on your personal white board



More Tens and Ones

What is 3 tens more than 6 tens?

Give the number sentence in unit form.

Give the number sentence in standard form.

What is 4 tens more than 6 tens? Give the answer in tens.

Give the answer in hundreds.

Give the number sentence in standard form.



Problem 1: 427 + 385



385 Let's solve this mentally. Where do we begin?

Is there another way we can solve?

Use place value language to tell your partner how to show this problem using place value disks.



Problem 1: 427 + 385

Let's all show the problem.



What should we do first to solve?

7 ones + 5 ones?



Problem 1: 427 + 385

What do we do when we have 10 of a unit, like 10 ones?



Let's add 2 tens, 8 tens, and 1 ten. How many tens altogether? Let's compose a new hundred! Remember to show the change on the vertical form.

427

+385



427

+385

12

Problem 1: 427 + 385

What is 4 hundreds + 3 hundreds + 1 hundred?



If 427 and 385 are the parts, what is the whole?



CONCEPT DEVELOPMENT



Problem 2: 672 + 249

672 + 249



Are we finding a part or the whole?

What are the parts?

Can we solve this mentally? That might not be the easiest way for all of us. Let's try that with place value disks, a place value chart, and the vertical form.

Show me and record it vertically!

So, what is 672 + 249?



Problem Set

A STORY OF UNITS	Lesson 9 Problem Set
ne	Date
Solve the following problems form.	using place value disks, a place value chart, and ve
a. 417 + 293	b. 526 + 185
c. 338 + 273	d. 625 + 186
- 250 . 520	£ 242 . E27



Did you solve any problems on the first page mentally or with a simplifying strategy? Which ones? Explain your thinking.

Explain to your partner how you used manipulatives to set up Problem 1(a). How did you change your place value disks to show Problem 1(b)? What actions did you take to solve?

For Problem 1(c), how did your work with the place value disks match the vertical form? How did you show new groups below?



Explain to your partner how you solved Problem 1(e). Did you need to compose a ten or hundred for Problem 1(f)? Why not? Why was the total the same for both problems?

In Problem 2, which problems were you able to solve mentally? Did you use manipulatives to solve any of these problems? Why or why not?

Use place value language and explain to your partner how you solved Problem 2(a–d) mentally. Or explain how your place value disks and vertical form changed as you worked through the problems.



A STORY OF UNITS	Lesson 9 Exit Ticket	2•5
Name	Date	ı

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

1. 375+197

2. 184 + 338