Eureka Math

First Grade Module 4 Lesson 9

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Icons





Read, Draw, Write











Manipulatives Needed







Lesson 9

Objective: Use the symbols >, =, and < to compare quantities and numerals.

Suggested Lesson Structure

Fluency Practice
Application Problem
Concept Development
Student Debrief
Total Time

(14 minutes) (5 minutes) (31 minutes) (10 minutes) (60 minutes)





Materials Needed

- S: Core Subtraction Fluency Review (Lesson 8 Core Subtraction Fluency Review)
- T/S: Personal white board, place value chart (Lesson 2 Template 2)
- S: Personal white board
- T: Double-sided alligator card (Template), comparison cards (Lesson 8 Template)
- S: Comparison cards (Lesson 8 Template), personal white board



I can use symbols <, >, = to compare quantities and numerals.

Core Subtraction Fluency Review (5min.)

Lesson 8 Core Subtraction Fluency Review 1•4

Nat	ne		Date
		Core Subtraction Fluency	Review
1,	8 - 0 =	16. 9 - 3 =	31. 5 - 5 =
2.	8 - 1 =	17. 10 - 3 =	32, 6 - 5 =
3.	7 - 7 =	18. 10 - 4 =	33, 7 - 5 =
4.	3 - 3 =	19. 10 - 2 =	34, 8 - 5 =
5,	3 - 2 =	20. 10 - 8 =	35. 8 - 4 =
6.	4 - 2 =	21, 10 - 7 =	36, 10 - 5 =
7.	5 - 2 =	22, 10 - 6 =	37. 9 - 5 =
8.	5 - 3 =	23. 6 - 6 =	38. 9 - 4 =
9.	9 - 2 =	24. 7 - 7 =	39, 6 - 3 =
10,	8 - 2 =	25, 7 - 6 =	40, 6 - 4 =
11,	7 - 2 =	26, 8 - 8 =	41. 7 - 3 =
12,	4 - 4 =	27. 8 - 7 =	42, 7 - 4 =
13,	4 - 3 =	28. 9 - 9 =	43, 8 - 6 =
14,	5 - 4 =	29. 9 - 8 =	44. 9 - 6 =
15,	8 - 3 =	30. 10 - 9 =	45, 9 - 7 =

A STORY OF UNITS

Students complete as many problems as they can in three minutes.



I'm going to write a number on my whiteboard and I'll give you clues to guess my number.

Clue: The digit in the tens place is 2. The digit in the ones place is 3. What's my number?



What's the value of the 2?



What's the value of the 3?



Clue: The digit in the tens place is 1 more than 2. The digit in the ones place is 1 less than 2.

What's my number?

What's the value of the 3?

What's the value of the 1?

Clue: The digit in the ones place is equal to 8 - 4. The digit in the tens place is equal to 9 - 7.

What's my number?

What's the value of the 2?

What's the value of the 4?

Sequence Sets of Numbers (5 min.) 23, 13, 32, 22

- How could you use the words greater than or less than to compare 32 and 23?
- Which number has the same digit in the tens place and ones place?
- Which two numbers have the same digit in the tens place?
- Which two numbers have the same digit in the ones place?
- Which number is less than 23?

Sequence Sets of Numbers (5 min.)

13, 11, 31, 1

Sequence Sets of Numbers (5 min.)

38, 18, 25, 35

Row Application Problem

Carl has a collection of rocks. He collects 10 more rocks. Now he has 31 rocks. How many rocks did he have in the beginning?

a. Use *place value charts* to show how many rocks Carl had at the beginning.

b. Write a statement comparing how many rocksCarl started and ended with, using one of thesephrases: greater than, less than, or equal to.

Would this hungry alligator rather eat 2 fish or 10 fish for dinner?

Why would he rather eat the group of 10 fish?

Yes, terrific. What would we say if we started comparing the numbers from the left, starting with the number 2?

Yes 2 is less than 10!

Which group of fish will the hungry alligator want to eat this time?

Show or explain how you know that.

1 ten

1 ten 6 ones

4 tens 3 tens 8 ones

Concept Development

Now, it's your turn to do this with a partner. Take out your comparison cards. Hold up the card that says less than.

Concept Development

Turn the card over. The wavy water lines should be at the bottom of your card. You will see a part of the alligator's mouth. If you'd like, use a yellow colored pencil to add some teeth to your alligator's mouth.

Concept Development

Turn the card over. The wavy water lines should be at the bottom of your card. You will see a part of the alligator's mouth. If you'd like, use a yellow colored pencil to add some teeth to your alligator's mouth.

Repeat with the greater than card.

Now, we're ready to play Compare It!

Each of you will write a number from 0 to 40 on your personal white board, without showing your partner. When you are both ready, put them down next to each other. For the first round, Partner A uses her comparison cards to put the alligator picture between the boards, always having the alligator's mouth open to the greater number. Then, Partner B will read the expression from left to right. Each round will last one minute. The object of the game is to see how many different comparisons you can make within each round. You can use tally marks to keep track.

Problem Set

A STORY OF UNITS

Problem Set

12345

Lesson 9 Problem Set 1-4

Nome	Date		

1. Circle the alligator that is eating the greater number.

 Write the numbers in the blanks so that the alligator is eating the greater number. With a partner, compare the numbers out loud, using is greater than, is less than, or is equal to. Remember to start with the number on the left.

Problem Set

A STORY OF UNITS

Problem Set

12345

Lesson 9 Problem Set 1-4

3. If the alligator is eating the greater number, circle it. If not, redraw the alligator.

4. Complete the charts so that the alligator is eating a greater number.

 Compare your answer to Problem 4(a) with your partner's. Did you and your partner come up with the same answer? Can there be more than one answer? Are there other problems that can have more than one answer? Why?

 Compare your answer to Problem 4(j) with your partner's. Did you and your partner come up with the same answer? Can there be only one answer? Are there other problems that can only have one answer? Why?

 What new math symbols did we use today to compare different numbers?
(> for greater than, < for less than.)

 Look at your statement to today's Application Problem. Rewrite your statement using only numbers and a symbol.

Lesson 9 Exit Ticket 1-4

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		_			

Date

Write the numbers in the blanks so that the alligator is eating the greater number. Read the number sentence, using is greater than, is less than, or is equal to. Remember to start with the number on the left.

