Eureka Math

First Grade Module 2 Lesson 25

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Reflecting your Teaching Style and Learning Needs of Your Students

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- ➤ Choose MAKE A COPY and rename your presentation.
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Icons





Read, Draw, Write











Manipulatives Needed







Lesson 25 1•2

Lesson 25

Objective: Strategize and apply understanding of the equal sign to solve equivalent expressions.

Suggested Lesson Structure

Fluency Practice
 Application Problem
 Concept Development
 Student Debrief

Total Time

(15 minutes) (7 minutes) (28 minutes) (10 minutes) (60 minutes)





Materials Needed

- (S) Counters
- (S) Make It Equal Sprint
- (T) Expression cards (Template) for use in small groups during Problem Set
- (S) Personal white board
- (S) Work from Application Problem
- (S) Linking cubes



I can think about and apply my understanding of the equal sign to solve equivalent expressions.

Make It Equal: Addition Expressions

9 + 🗆 = 8 + 🗆

Find different numbers that make the equation true! Work with your partner to check your answers.



Now it is time for a sprint!

A STORY OF UNITS	Lesson 25 Sprint 1•2
Α	Number Cornect:
Name	Date

Vrite	the	missing	number.
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1.	□ = 4 + 1	16.	7 + 3 = 4 + 🗆
2.	□ = 4 + 2	17.	6 + 4 = 5 + 🗆
3.	□ = 4 + 3	18.	5 + 5 = 6 + 🗆
4.	□ = 5 + 1	19.	5 + 3 = 🗆 + 1
5.	□ = 5 + 2	20.	5 + 4 = 🗆 + 5
6.	□ = 5 + 3	21.	4 + 5 = 🗆 + 5
7.	□ = 6 + 1	22.	2 + 🗆 = 6 + 2
8.	8 = 7 + 🗆	23.	4 + 🗆 = 5 + 3
9.	9 = 8 + 🗆	24.	□ + 4 = 5 + 2
10.	9 = 🗆 + 1	25.	□ + 6 = 4 + 3
11,	9 = 🗆 + 9	26.	4 + 2 = 1 + 🗆
12.	8 = 🗆 + 1	27.	3 + 4 = 🗆 + 2
13.	□ = 7 + 1	28.	4 + 4 = 2 + 🗆
14.	10 = 8 + 🗆	29.	3 + 🗆 = 2 + 7
15.	10 = 🗆 + 8	30.	□ + 2 = 2 + 6



Now it is time for a sprint!

Lesson 25 Sprint 1•2
Number Correct:
Date

*Write the missing number.

1.	□ = 3 + 1	16.	5+5=4+□
2.	□ = 3 + 2	17.	6+4=7+□
3.	□ = 3 + 3	18.	3 + 7 = 8 + 🗆
4.	□ = 4 + 1	19.	5 + 2 = 🗆 + 1
5.	□ = 4 + 2	20.	5 + 3 = 🗆 + 5
6.	□ = 4 + 3	21.	4 + 4 = 🗆 + 4
7.	□ = 5 + 1	22.	3 + 🗆 = 6 + 3
8.	8 = 1 + 🗆	23.	4 + 🗆 = 5 + 4
9.	9 = 1 + 🗆	24.	□ + 4 = 2 + 5
10.	8 = 🗆 + 7	25.	□ + 6 = 3 + 4
11.	8 = 🗆 + 8	26.	4 + 3 = 1 + 🗆
12.	7 = 🗆 + 1	27.	4 + 4 = 🗆 + 2
13.	□ = 6 + 1	28.	4 + 5 = 2 + 🗆
14.	10 = 9 + 🗆	29.	3 + 🗆 = 2 + 6
15.	10 = 🗆 + 9	30.	□+2=2+7



RDW Application Problem

Micah had 16 trucks and lost 9 of them. Charles had 1 truck and received 6 more trucks from his mother. Who has more trucks, Micah or Charles?



Micah had 16 trucks and lost 9 of them. Charles had 1 truck and received 6 more trucks from his mother.

Who has more trucks, Micah or Charles?



Micah had 16 trucks and lost 9 of them. Charles had 1 truck and received 6 more trucks from his mother.

Who has more trucks, Micah or Charles?

What?! Neither of them have more! You are correct, they both have the same number of trucks!



Talk with a partner. Use your drawings to help you prove to your partner that Micah and Charles have the same number of trucks.



What number sentence did you write to match Micah's part of the story?



I like how I saw you write 16–9=7. That is right!



What number sentence did you write to match Charles' part of the story?



I see that you wrote 1+6=7 for Charles' part of the story. Correct!



So, Micah and Charles have an equal number of trucks?



So, Micah and Charles have an equal number of trucks?

Yes!



We can say, then, that 16 - 9 is equal to 1 + 6.



How does our story help us see that 16-9 = 1+6?

Talk with your partners.



How does our story help us see that 16-9 = 1+6?

I like how I heard you say since 16–9 is 7 and 1+6 is 7, they are equal. 16–9 equals 1+6. I also heard someone say once I took the 9 from 10, Micah and Charles both show 1 and 6. They both have 7.



Let's try to make some more cool number sentences like this!

Work with your partner to make at least two expressions that equal 12.



Great! I like how some partners found 10 + 2 and 11 + 1.

So let's use 10 + 2. Who has another?



10 + 2

Someone else found 6 + 6! True or false?



10 + 2 = 6 + 6

That's right! It's true!



Let's all write this cool number sentence on our personal white boards and read it together.



If I erase this 6, what number goes here to make this equation true?



I heard some of you say 6! You would need to have two sixes to equal 12.



Everyone has an expression card. Solve the expression. You may use linking cubes or another strategy. If you're using linking cubes, you may need to borrow extras from a neighbor. After you solve the expression, make a linking cube stick to show your final amount.



There is someone in the room who has the same answer. Find that person, and create a number sentence together to show that your two expressions make equal amounts!



What true number sentences did we make?

Problem Set 12345	Pro	blem Set ASTARY DE LUNIS
A STORY OF UNITS	Lesson 25 Problem Set 1.2	 Write a true number sentence using the expressions that you have left over. Use pictures and words to show how you know two of the expressions have the same unknown numbers.
Use the expression cards to play Memory. Write the true number sentences.	he matching expressions to make	 Use other facts you know to write at least two true number sentences similar to the type above.
2.		 The following addition number sentences are FALSE. Change one number in each problem to make a TRUE number sentence, and rewrite the number sentence. a. 8 + 5 = 10 + 2
3. 		b. 9 + 3 = 8 + 5 c. 10 + 3 = 7 + 5
4. 		 The following subtraction number sentences are FALSE. Change one number in each problem to make a TRUE number sentence, and rewrite the number sentence. a. 12 - 8 = 1 + 2
5.		b. 13 - 9 = 1 + 4 c. 1 + 3 = 14 - 9



Show how you know these are equal expressions. What do you notice about the numbers when you break apart 14?



Which of the parts of the number sentence are the expression? What does it mean to use "=" between the two expressions? Explain the meaning of equal.



Look at your Problem Set. Which expressions can you solve in your head? How can they help you solve other expressions that might be harder for you?



Look at the true number sentences we made during today's partner activity. What did you notice about the expressions that made these number sentences true?



Which expressions were missing a part? Which expressions were missing the whole, or total?



How did the Application Problem connect to today's lesson?



- Turn to your partner and share what you learned in today's lesson.
- What did you get really good at today?



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esson 25 Exit Ticket 102

Name	-

Date

You are given these new expression cards. Write matching expressions to make true number sentences.









