

Eureka Math

First Grade Module 1 Lesson 39

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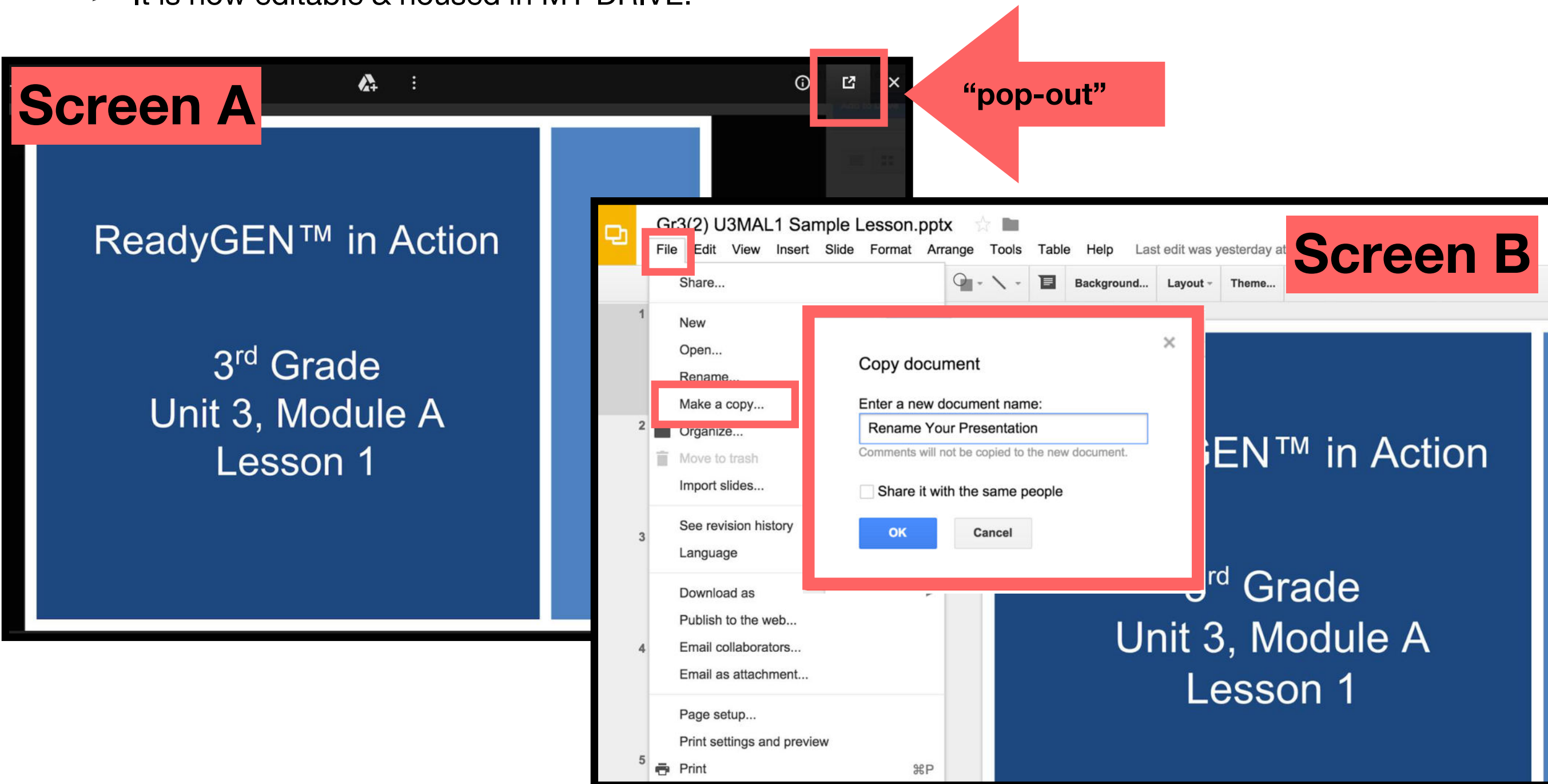


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- The view now looks like Screen B.
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- Google Slides will open your renamed presentation.
- It is now editable & housed in MY DRIVE.



Icons



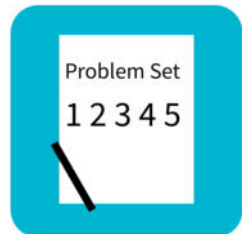
Read, Draw, Write



Learning Target



Personal White Board



Problem Set



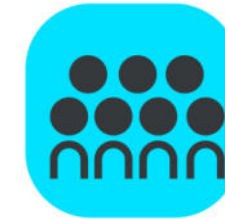
Manipulatives Needed



Fluency



Think Pair Share



Whole Class



Individual



Partner



Small Group



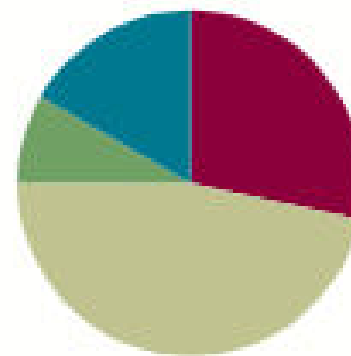
Small Group Time

Lesson 39

Objective: Analyze the addition chart to create sets of related addition and subtraction facts.

Suggested Lesson Structure

■ Fluency Practice	(17 minutes)
■ Application Problem	(5 minutes)
■ Concept Development	(28 minutes)
■ Student Debrief	(10 minutes)
Total Time	(60 minutes)



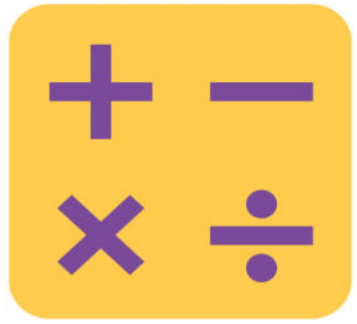


Materials Needed

- (S) personal white board
- (S) Decomposing Teen Numbers Sprint
- (S) Die (with 6 replaced by 0)
- (T) Addition chart (Lesson 21 Template)
- (S) Addition chart (Lesson 21 Template)
- (S) subtraction expression cards (Lesson 38 Template)
per group

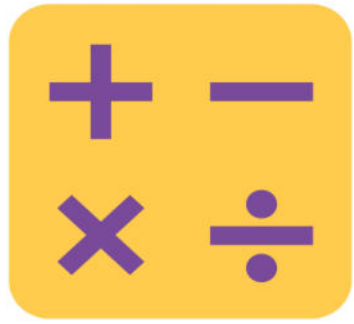


I can analyze the addition chart to create sets of related addition and subtraction facts.



Decompose Teen Numbers

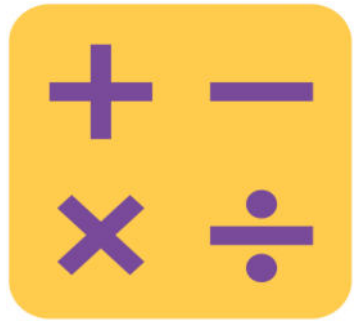
Let's decompose teen numbers!



Sprint: Decomposing Teen Numbers

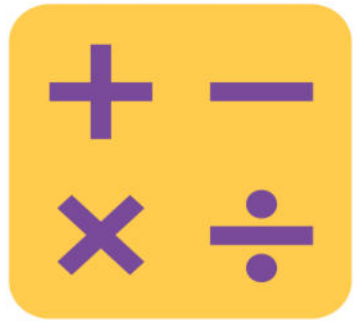
Let's do a sprint!

A STORY OF UNITS		Lesson 39 Sprint		1•1
A		Number Correct:		
Name _____		Date _____		
*Write the missing number for each sentence.				
1.	8 and 2 make		16.	11 is 10 and
2.	9 and 1 make		17.	11 is 1 and
3.	7 and 3 make		18.	12 is 2 and
4.	6 and make 10		19.	11 is and 1
5.	4 and make 10		20.	14 is 10 and
6.	5 and make 10		21.	15 is 5 and
7.	and 5 make 10		22.	18 is 8 and
8.	13 is 10 and		23.	20 is 10 and
9.	14 is 10 and		24.	2 more than 10 is
10.	16 is 10 and		25.	10 more than 2 is
11.	17 is 10 and		26.	10 is less than 12
12.	19 is 10 and		27.	10 is less than 12
13.	18 is 10 and		28.	8 less than 18 is
14.	12 is 10 and		29.	6 less than 16 is
15.	13 is 10 and		30.	10 less than 20 is



Sprint: Decomposing Teen Numbers

A STORY OF UNITS		Lesson 39 Sprint		1•1
B		Number Correct: 		
Name _____		Date _____		
*Write the missing number for each sentence.				
1.	9 and 1 make		16.	13 is 10 and
2.	8 and 2 make		17.	13 is 3 and
3.	6 and 4 make		18.	11 is 1 and
4.	7 and make 10		19.	11 is and 1
5.	3 and make 10		20.	15 is and 10
6.	4 and make 10		21.	14 is 4 and
7.	and 5 make 10		22.	19 is 9 and
8.	14 is 10 and		23.	20 is 10 and
9.	13 is 10 and		24.	1 more than 10 is
10.	17 is 10 and		25.	10 more than 1 is
11.	16 is 10 and		26.	10 is less than 11
12.	15 is 10 and		27.	10 is less than 14
13.	19 is 10 and		28.	7 less than 18 is
14.	11 is 10 and		29.	7 less than 16 is
15.	12 is 10 and		30.	10 less than 20 is



Number Bond Roll

Let's play number bond roll!

Application Problem

John has 10 pencils. Mark has 9 pencils. Anna has 8 pencils. They each lost two of their pencils. How many do they each have now? Write a number bond and number sentence for each student.





Concept Development

1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6	3 + 7		
4 + 0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5	4 + 6			
5 + 0	5 + 1	5 + 2	5 + 3	5 + 4	5 + 5				
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4					
7 + 0	7 + 1	7 + 2	7 + 3						
8 + 0	8 + 1	8 + 2							
9 + 0	9 + 1								
10 + 0									

Look at $5+2$ on the addition chart. Who can share a subtraction sentence and an addition sentence that have the same parts and total?



Concept Development

1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6	3 + 7		
4 + 0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5	4 + 6			
5 + 0	5 + 1	5 + 2	5 + 3	5 + 4	5 + 5				
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4					
7 + 0	7 + 1	7 + 2	7 + 3						
8 + 0	8 + 1	8 + 2							
9 + 0	9 + 1								
10 + 0									

I heard someone say $7-5=2$
and $5+2=7$!



Concept Development

1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6	3 + 7		
4 + 0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5	4 + 6			
5 + 0	5 + 1	5 + 2	5 + 3	5 + 4	5 + 5				
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4					
7 + 0	7 + 1	7 + 2	7 + 3						
8 + 0	8 + 1	8 + 2							
9 + 0	9 + 1								
10 + 0									

$$7 - 5 = 2$$

$$5 + 2 = 7$$

Let's all write that set on
our board. Write the
number bond, too.



Concept Development

1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6	3 + 7		
4 + 0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5	4 + 6			
5 + 0	5 + 1	5 + 2	5 + 3	5 + 4	5 + 5				
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4					
7 + 0	7 + 1	7 + 2	7 + 3						
8 + 0	8 + 1	8 + 2							
9 + 0	9 + 1								
10 + 0									

Let's all write that set on our board. Write the number bond, too.

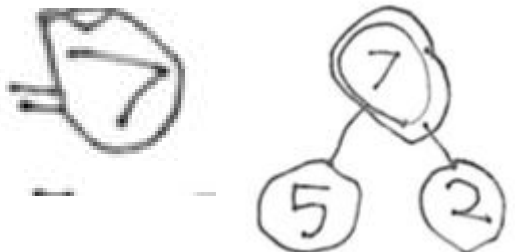
$7 - 5 = 2$ $5 + 2 = 7$ 



Concept Development

1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6	3 + 7		
4 + 0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5	4 + 6			
5 + 0	5 + 1	5 + 2	5 + 3	5 + 4	5 + 5				
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4					
7 + 0	7 + 1	7 + 2	7 + 3						
8 + 0	8 + 1	8 + 2							
9 + 0	9 + 1								
10 + 0									

There are more addition facts that we can make from this same number bond. What is one of them?

$7 - 5 = 2$ $5 + 2 = 7$ 



Concept Development

1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6	3 + 7		
4 + 0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5	4 + 6			
5 + 0	5 + 1	5 + 2	5 + 3	5 + 4	5 + 5				
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4					
7 + 0	7 + 1	7 + 2	7 + 3						
8 + 0	8 + 1	8 + 2							
9 + 0	9 + 1								
10 + 0									

I heard one of you say $2+5=7$! Let's write that number sentence as well!

$7 - 5 = 2$ $5 + 2 = 7$  



Concept Development

1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6	3 + 7		
4 + 0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5	4 + 6			
5 + 0	5 + 1	5 + 2	5 + 3	5 + 4	5 + 5				
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4					
7 + 0	7 + 1	7 + 2	7 + 3						
8 + 0	8 + 1	8 + 2							
9 + 0	9 + 1								
10 + 0									



$$2 + 5 = 7$$

$$7 - 5 = 2 \quad 5 + 2 = 7$$

We can also write a number sentence matching two addition expressions without totals. Turn and talk with your partner to discuss what this number sentence might be. Write it on your board.



Concept Development

1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6	3 + 7		
4 + 0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5	4 + 6			
5 + 0	5 + 1	5 + 2	5 + 3	5 + 4	5 + 5				
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4					
7 + 0	7 + 1	7 + 2	7 + 3						
8 + 0	8 + 1	8 + 2							
9 + 0	9 + 1								
10 + 0									



I saw many of you write

$$5 + 2 = 2 + 5.$$

5 + 2 is equal to, or the same as, 2 + 5.

$$2 + 5 = 7$$

$$7 - 5 = 2 \quad 5 + 2 = 7$$



Concept Development

1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6	3 + 7		
4 + 0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5	4 + 6			
5 + 0	5 + 1	5 + 2	5 + 3	5 + 4	5 + 5				
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4					
7 + 0	7 + 1	7 + 2	7 + 3						
8 + 0	8 + 1	8 + 2							
9 + 0	9 + 1								
10 + 0									



I saw many of you write

$$5 + 2 = 2 + 5.$$

5 + 2 is equal to, or the same as, 2 + 5.

$$2 + 5 = 7$$

$$7 - 5 = 2 \quad 5 + 2 = 7$$



Concept Development

1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6	3 + 7		
4 + 0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5	4 + 6			
5 + 0	5 + 1	5 + 2	5 + 3	5 + 4	5 + 5				
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4					
7 + 0	7 + 1	7 + 2	7 + 3						
8 + 0	8 + 1	8 + 2							
9 + 0	9 + 1								
10 + 0									



$$2 + 5 = 7$$

$$7 - 5 = 2 \quad 5 + 2 = 7$$

There are other number sentences that have the same parts and total. Talk with your partner to decide what they could be, and write them on your board.



Concept Development

1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6	3 + 7		
4 + 0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5	4 + 6			
5 + 0	5 + 1	5 + 2	5 + 3	5 + 4	5 + 5				
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4					
7 + 0	7 + 1	7 + 2	7 + 3						
8 + 0	8 + 1	8 + 2							
9 + 0	9 + 1								
10 + 0									



I saw many of you write $7 - 2 = 5$! See if you can write your number bond in different ways, too. Circle your totals!

$\textcircled{7} - 2 = 5$ $2 + 5 = \textcircled{7}$
 $\textcircled{7} - 5 = 2$ $5 + 2 = \textcircled{7}$



Concept Development

1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6	3 + 7		
4 + 0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5	4 + 6			
5 + 0	5 + 1	5 + 2	5 + 3	5 + 4	5 + 5				
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4					
7 + 0	7 + 1	7 + 2	7 + 3						
8 + 0	8 + 1	8 + 2							
9 + 0	9 + 1								
10 + 0									



I saw many of you write $7 - 2 = 5$! See if you can write your number bond in different ways, too. Circle your totals!

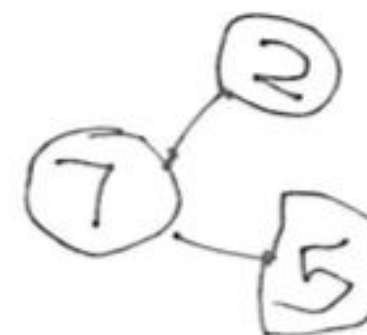
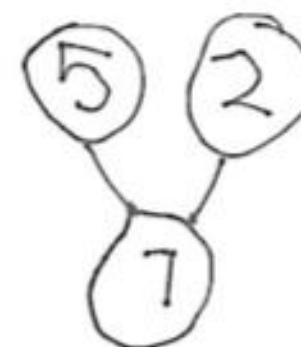
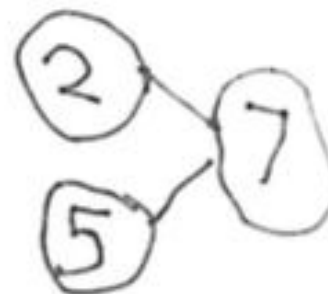
$\textcircled{7} - 2 = 5$ $2 + 5 = \textcircled{7}$
 $\textcircled{7} - 5 = 2$ $5 + 2 = \textcircled{7}$



Concept Development

1+0	1+1	1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9
2+0	2+1	2+2	2+3	2+4	2+5	2+6	2+7	2+8	
3+0	3+1	3+2	3+3	3+4	3+5	3+6	3+7		
4+0	4+1	4+2	4+3	4+4	4+5	4+6			
5+0	5+1	5+2	5+3	5+4	5+5				
6+0	6+1	6+2	6+3	6+4					
7+0	7+1	7+2	7+3						
8+0	8+1	8+2							
9+0	9+1								
10+0									

I saw you draw these different number bonds!



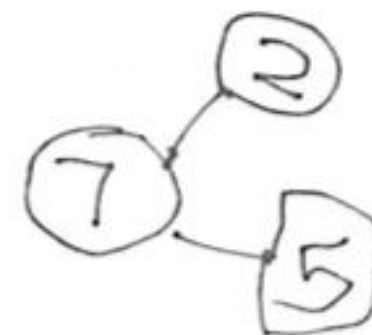
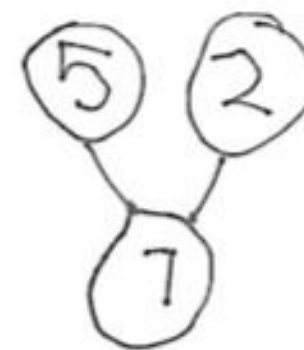
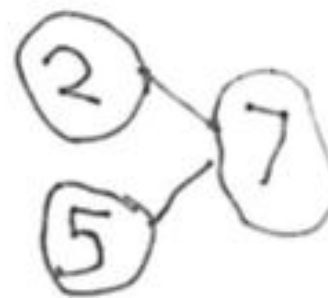
$$\begin{array}{l} \textcircled{7} - 2 = 5 \quad 2 + 5 = \textcircled{7} \\ \textcircled{7} - 5 = 2 \quad 5 + 2 = \textcircled{7} \end{array}$$



Concept Development

1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6	3 + 7		
4 + 0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5	4 + 6			
5 + 0	5 + 1	5 + 2	5 + 3	5 + 4	5 + 5				
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4					
7 + 0	7 + 1	7 + 2	7 + 3						
8 + 0	8 + 1	8 + 2							
9 + 0	9 + 1								
10 + 0									

Look how many facts you can share using your knowledge of one fact.



$$\begin{array}{l} 7 - 2 = 5 \quad 2 + 5 = 7 \\ 7 - 5 = 2 \quad 5 + 2 = 7 \end{array}$$



Concept Development

1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6	3 + 7		
4 + 0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5	4 + 6			
5 + 0	5 + 1	5 + 2	5 + 3	5 + 4	5 + 5				
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4					
7 + 0	7 + 1	7 + 2	7 + 3						
8 + 0	8 + 1	8 + 2							
9 + 0	9 + 1								
10 + 0									

Now I will assign pairs of students different number bonds from which to make as many varied number sentences as you can. You will share their ideas with peers!

Problem Set

1 2 3 4 5

Problem Set

A STORY OF UNITS

Lesson 39 Problem Set 1•1

Name _____ Date _____

Study the addition chart to solve and write related problems.

1+0	1+1	1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9
2+0	2+1	2+2	2+3	2+4	2+5	2+6	2+7	2+8	
3+0	3+1	3+2	3+3	3+4	3+5	3+6	3+7		
4+0	4+1	4+2	4+3	4+4	4+5	4+6			
5+0	5+1	5+2	5+3	5+4	5+5				
6+0	6+1	6+2	6+3	6+4					
7+0	7+1	7+2	7+3						
8+0	8+1	8+2							
9+0	9+1								
10+0									

Pick a subtraction card.

Find the related addition fact on the chart and shade it in.

Write the subtraction sentence and the shaded addition sentence.

Write the other two related facts.

Continue for at least 4 turns.

Problem Set

1 2 3 4 5

Problem Set

A STORY OF UNITS

Lesson 39 Problem Set

1•1

Choose an expression card, and write 4 problems that use the same parts and totals. Shade the totals orange.



1. $\underline{\quad} - \underline{\quad} = \underline{\quad}$

$\underline{\quad} + \underline{\quad} = \underline{\quad}$

$\underline{\quad} \bigcirc \underline{\quad} = \underline{\quad}$

$\underline{\quad} \bigcirc \underline{\quad} = \underline{\quad}$

2. $\underline{\quad} - \underline{\quad} = \underline{\quad}$

$\underline{\quad} + \underline{\quad} = \underline{\quad}$

$\underline{\quad} \bigcirc \underline{\quad} = \underline{\quad}$

$\underline{\quad} \bigcirc \underline{\quad} = \underline{\quad}$

3. $\underline{\quad} - \underline{\quad} = \underline{\quad}$

$\underline{\quad} + \underline{\quad} = \underline{\quad}$

$\underline{\quad} \bigcirc \underline{\quad} = \underline{\quad}$

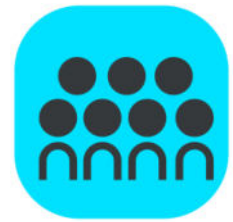
$\underline{\quad} \bigcirc \underline{\quad} = \underline{\quad}$

4. $\underline{\quad} - \underline{\quad} = \underline{\quad}$

$\underline{\quad} + \underline{\quad} = \underline{\quad}$

$\underline{\quad} \bigcirc \underline{\quad} = \underline{\quad}$

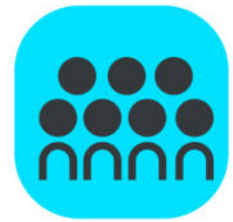
$\underline{\quad} \bigcirc \underline{\quad} = \underline{\quad}$



Debrief



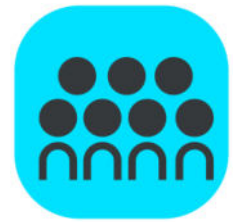
Look at this subtraction expression. What number sentences we can make? What number sentence can we make that uses both of the addition expressions?



Debrief



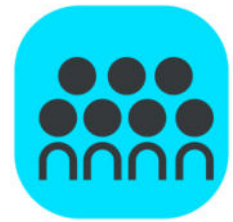
Look at Problem 1. Write the number sentence that uses both addition expressions below your work.



Debrief



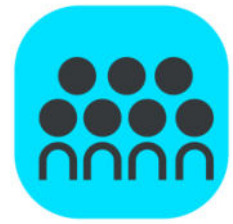
How does knowledge of one addition or subtraction fact help you know other facts?
Use an example from your Problem Set to explain your thinking.



Debrief



Look at your Application Problem. Where are the related addition facts on the addition chart? How are the three number bonds similar? How are they different?



Debrief



Have different groups present their work from the Concept Development. Let the others ask them questions about their work.



Exit Ticket

A STORY OF UNITS

Lesson 39 Exit Ticket

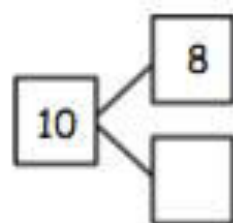
1•1

Name _____

Date _____

Write the related number sentences for the number bonds.

1.



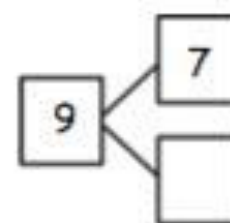
$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \bigcirc \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \bigcirc \underline{\quad} = \underline{\quad}$$

2.



$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

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