Eureka Math

First Grade Module 1 Lesson 38

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Icons





Read, Draw, Write











Manipulatives Needed







Lesson 38

Objective: Look for and make use of repeated reasoning and structure using the addition chart to solve subtraction problems.

Suggested Lesson Structure

Fluency Practice	(10 minutes)
Application Problem	(7 minutes)
Concept Development	(33 minutes)
Student Debrief	(10 minutes)
Total Time	(60 minutes)



Materials Needed

- (T) Rekenrek (cover the unused beads)
- (T) Hide Zero cards (Fluency Template) (S) Personal white board
- (S) 1 deck of numeral cards (single-sided numerals from 5-group cards Lesson 5, Template 1) with 2 extra tens per pair
- counters (if needed)
- T) Addition chart (Lesson 21 Template)
- subtraction expression cards (Template) (S) Addition chart (Lesson 21 Template)
- subtraction expression cards (Template) per group, yellow crayon
- personal white board



I can look for and make use of repeated reasoning and structure using the addition chart to solve subtraction problems.



Rekenrek

Let's practice making 10 with our rekenrek!

Hide Zero Cards: Bonding Teen Numbers

Let's practice teen numbers!



Subtraction with Cards

Each partner flips over two cards and subtracts the smaller number from the larger number. The partner with the smallest difference keeps the cards played by both players that round. The player with the most cards at the end of the game wins.

Application Problem

Jessie and Carl were comparing the beads they picked up. Jessie picked up 9 beads. 5 of them were red, and the rest were white. Carl picked up 5 red beads and 4 white beads. Carl said they had the same number of white beads. Is Carl correct? Draw and label your work to show your thinking.





1+0	1+1	1+2	1 + 3	1 + 4	1+5	1+6	1 + 7	1+8	1+9	Ċ.		
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2+6	2 + 7	2 + 8		ć.		
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		1					
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4		1						
7 + 0	7 + 1	7 + 2	7 + 3		1							
8 + 0	8 + 1	8 + 2			Но	w d	lid t	his a	add	itior	n cha	irt
9+0	9 + 1		1		ho			ith c	nir g	addi	tion	facte?
10 + 0						ip u	3 11			auui		100131



the same

		A restauration of the second se								
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		53	
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		l				
7 + 0	7 + 1	7 + 2	7 + 3	He	aro i	s ar	n ide	a I	hea	rdl
8 + 0	8 + 1	8 + 2				5 0	IIU		nca	U :
9+0	9 + 1		J							
10 + 0	-	3). 2).		All	the	+1	ado	den	ds a	re in
	i.									
				CO	IUII	11.				



	1+9	1+8	1 + 7	1+6	1+5	1+4	1 + 3	1+2	1+1	1+0
		2 + 8	2 + 7	2 + 6	2 + 5	2 + 4	2 + 3	2 + 2	2 + 1	2 + 0
	ŝ.		3 + 7	3 + 6	3 + 5	3 + 4	3 + 3	3+2	3 + 1	3 + 0
				4 + 6	4 + 5	4 + 4	4 + 3	4 + 2	4 + 1	4 + 0
					5+5	5+4	5+3	5+2	5 + 1	5+0
						6 + 4	6 + 3	6+2	6 + 1	6 + 0
he same part!	ith t	rt w	sta	s/w	e rc	Th	7 + 3	7+2	7 + 1	7 + 0
				,,,,		- -		8 + 2	8 + 1	8 + 0
									9+1	9+0
										10 + 0



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		8	
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		J			
6 + 0	6 + 1	6 + 2	6+3	6 + 4						
7 + 0	7 + 1	7 + 2	7 + 3	Th	no to	tals	s ma	ade	a et	aircase
8 + 0	8 + 1	8 + 2				lai			asi	ancasc
9+0	9+1		1							
10 + 0										



Concept Development

1	+ 7	1 -	6	1 +	5	1+	4	1 +	3	1 +	2	1 +	1	1+	+ 0	1
2	+ 7	2	6	2 +	5	2 +	4	2 +	3	2 +	2	2 +	- 1	2 •	2 + 0	2
_	+ 7	3	6	3+	5	3 •	4	3 +	3	3 +	2	3 +	- 1	3+	+ 0	3
			6	4 +	5	4 •	4	4+	3	4 +	2	4 +	• 1	4 •	+ 0	4
			- 17		5	5+	4	5+	3	5+	2	5+	• 1	5+	i + 0	5
							4	6+	3	6 +	2	6+	- 1	6+	+ 0	6
J	n	а	е	rit	N				3	7 +	2	7 +	• 1	7 •	*0	7
~				•••	 				_		2	8 +	• 1	8 +	+ 0	8
1	SSI	IS		e	.[]						_		- 1	9+	+ 0	9

ond and leave mpty for now.





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		7 1
5+0	5+1	5+2	5+3 5+4	5+5		/ - 4
6 + 0	6 + 1	6 + 2	6+3 6+4	N/hat id	↓ s tha s	wholo?
7 + 0	7 + 1	7+2	7 + 3	vviali		
8 + 0	8 + 1	8 + 2				
9+0	9+1		1			
10 + 0]			/	





10 + 0

9+1

		1+9	1+8	1 + 7	1+6	1+5	1 + 4	1 + 3	1+2	1 + 1	1+0
			2 + 8	2 + 7	2 + 6	2 + 5	2 + 4	2 + 3	2 + 2	2 + 1	2 + 0
-				3 + 7	3+6	3 + 5	3 + 4	3 + 3	3+2	3 + 1	3 + 0
	7 1				4 + 6	4 + 5	4 + 4	4 + 3	4 + 2	4 + 1	4 + 0
	/ - 4					5+5	5+4	5+3	5+2	5+1	5+0
-		• •			- -		6 + 4	6 + 3	6 + 2	6 + 1	6 + 0
ר par	. The know	IS /	nole	e wr	Ihe		-	7 + 3	7 + 2	7 + 1	7 + 0
									8 + 2	8 + 1	8 + 0





Concept Development



Which of the addition problems on your chart have a part that is 4? Talk to your partner.





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				7_4
5+0	5 + 1	5+2	5+3	5+4	5+5]		/	
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4		1			1	
7 + 0	7 + 1	7+2	7 + 3		1					
8 + 0	8 + 1	8 + 2								
			1							

10 + 0

9+1

The ones here, going across. It's the row that starts with 4 + 0. There is one here, too, going down. It starts with 1 + 4.







								-				-						
	1+9	1+8	+ 7	1	6	1	5	1 -	+ 4	1	• 3	1 -	2	1 +	1	1+	0	1+
	<u>.</u>	2 + 8	+ 7	2	• 6	2	- 5	2 ·	+ 4	2	+ 3	2	- 2	2 •	1	2 +	0	2 +
			+ 7	3	+ 6	3	- 5	3 ·	+ 4	3	+ 3	3.	- 2	3•	1	3 +	0	3 +
7					+ 6	4	- 5	4	+ 4	4	+ 3	4	2	4 •	1	4 +	0	4 +
/ - 4				1	-	\square	- 5	5.	+ 4	5	+ 3	5	- 2	5+	• 1	5+	0	5+
	-					1			+ 4	6	+ 3	6	• 2	6•	1	6 +	0	6 +
								1			• 3	7	- 2	7•	1	7+	0	7 +
										J		-	2	8 •	1	8 +	0	8 +
												1			1	9+	0	9+
		t	bu	S	art	pa	е	th	lls	te	rt ⁻	าล	C	ie	Th		+ 0	10 -
				f	C	cł	hi	W	S.		ot	e t	h	ot t	าต	r		
				-		- 1									. •	•		
			C	hc	\ +	<u>،</u> ، ،			m		h	nr			h	+		
	4		9	he	e t		าอ	IS	m	ole '	ok	pr	е	OS	th	t		

call out the answer! Wait for the signal!



2 + 0

3 + 0

4 + 0

5 + 0

6+0

7 + 0

8 + 0

1 + 1

2 + 1

3 + 1

4+1

5+1

6 + 1

7 + 1

8+1

1 + 2

2 + 2

3+2

4 + 2

5+2

6+2

7+2

8+2

7 + 3

Concept Development



4 + 3 and 3 + 4!

9+0 9+1 10+0







Concept Development



Let's color in 4+3 and 3+4 on our chart with yellow and fill in our number bond with the missing part!





2 + 0

3 + 0

4 + 0

5 + 0

6 + 0

7 + 0

8 + 0

9 + 0

10 + 0

9 + 1

Concept Development



Let's color in 4+3 and 3+4 on our chart with yellow and fill in our number bond with the missing part!





Concept Development



1+8	1 + 7	1+6	1+5	1 + 4	1 + 3	1+2	1 + 1	1+0
2 + 8	2 + 7	2 + 6	2 + 5	2 + 4	2 + 3	2 + 2	2 + 1	2 + 0
	3 + 7	3+6	3 + 5	3 + 4	3 + 3	3+2	3 + 1	3+0
		4 + 6	4 + 5	4 + 4	<mark>4 + 3</mark>	4 + 2	4 + 1	4 + 0
			5+5	5+4	5+3	5+2	5 + 1	5+0
subt	he s	te t	Wri	6 + 4	6 + 3	6 + 2	6 + 1	6+0
rom	ce f	iten	sen		7 + 3	7 + 2	7 + 1	7+0
						8 + 2	8 + 1	8 + 0
Wri	ISO,	1. A	WIT				0.1	0+0



Write the subtraction number sentence from the card we started with. Also, write the addition number sentence that helped us solve it.

1 + 9





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			7 1
4 + 0	4 + 1	4 + 2	<mark>4 + 3</mark>	4+4	4 + 5	4 + 6				/ - 4
5+0	5 + 1	5+2	5+3	5+4	5+5		l			
6 + 0	6 + 1	6 + 2	6 + 3	6+4]				
7 + 0	7 + 1	7 + 2	7 + 3		Ήρ	re a	re ti	hos		illiations.
8 + 0	8 + 1	8 + 2		ļ		10 0		105		
9+0	9 + 1		J.		/ -	4 =	3			
10 + 0		3. 35			4 +	- 3=	7			



9 + 0

10 + 0

Concept Development





expression!





8 + 1

9 + 1

7 + 0

8 + 0

9 + 0

10 + 0

7 + 2

8+2

7 + 3

Concept Development





Write a number bond and leave the missing part empty for now!







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			ΟΛ
4 + 0	4 + 1	4 + 2	<mark>4 + 3</mark>	4 + 4	4 + 5	4 + 6				0 - 4
5 + 0	5 + 1	5+2	5+3	5+4	5+5					
5 + 0	6 + 1	6 + 2	6 + 3	6 + 4						
7 + 0	7 + 1	7 + 2	7 + 3		ٍ ۱۷/۲	at i	e th		hole	2م
8 + 0	8 + 1	8 + 2			VVI		5 11			J i
9+0	9 + 1		1							
0 + 0										





9 + 0

10 + 0

8 + 1

9+1

8+2

Concept Development





The whole is 8! What is the known part?





8 + 1

9 + 1

7 + 0

8 + 0

9 + 0

10 + 0

7 + 2

8+2

7 + 3

Concept Development





The known part is 4! Which of the addition problems on your chart have a part that is 4?





8+2

7 + 3

7 + 1

8 + 1

9 + 1

7 + 0

8 + 0

9 + 0

10 + 0

Concept Development



					\bullet							
12	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		G. #	
	3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3+5	3+6	3 + 7			0	
	4 + 0	4 + 1	4 + 2	<mark>4 + 3</mark>	4 + 4	4 + 5	4 + 6				Ο	-
	5+0	5 + 1	5+2	5+3	5+4	5+5]				
	6 + 0	6 + 1	6 + 2	6 + 3	6 + 4		1	_				

The ones here, going across. It's the row that starts with 4 + 0. There is one here, too, going down. It starts with 1 + 4.





8 + 0

9 + 0

10 + 0

7 + 1

8 + 1

9 + 1

7 + 2

8+2

7 + 3

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	<mark>4 + 3</mark>	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		-			
6+0	6+1	6+2	6+3	6+4	Tho	cha	ort ta	lle '	ŧŀ

The chart tells the parts but not the totals. Which of those problems has the same total as 8 - 4? Don't call out the answer!

- 4





8 + 1

9 + 1

7 + 0

8 + 0

9 + 0

10 + 0

7 + 2

8+2

7 + 3

Concept Development





4 + 4! Let's color in 4 + 4 on our addition part and fill in our number bond with the missing part.





8 + 1

9+1

7 + 0

8 + 0

9 + 0

10 + 0

7 + 2

8+2

7 + 3

Concept Development





Let's also color the total of our number bond yellow!





1 + 8

2 + 8

7

7

1 + 9



4

1+	1 + 6	1+5	1 + 4	1 + 3	1+2	1 + 1	1+0
2 +	2 + 6	2 + 5	2 + 4	2 + 3	2 + 2	2 + 1	2 + 0
3 +	3 + 6	3 + 5	3 + 4	3 + 3	3+2	3 + 1	3 + 0
	4 + 6	4 + 5	4 + 4	4 + 3	4 + 2	4 + 1	4+0
1		5+5	5+4	5+3	5+2	5 + 1	5+0
+b.	dta -	\\//	6+4	6 + 3	6 + 2	6 + 1	6+0
	пе	vvr		7 + 3	7 + 2	7 + 1	7+0
	nter	sei			8 + 2	8 + 1	8 + 0
Nr	th. V	wit				9+1	9+0
	-						10 + 0

Write the subtraction number sentence from the card we started with. Write the addition number sentence that helped us solve it.





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	<u>. </u>		
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3+6	3 + 7				
4 + 0	4 + 1	4 + 2	<mark>4 + 3</mark>	4 + 4	4 + 5	4 + 6				Q	<u> </u> Δ
5+0	5 + 1	5+2	5+3	5+4	5+5		1			0	
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4						a ± a .	
7 + 0	7 + 1	7 + 2	7 + 3		HE	ere a	are	INOS	se ta	CIS:	
8 + 0	8 + 1	8+2			8 -	- 4 =	= 4				
9+0	9+1		1		4 -	⊢ 4 :	= 8				
10 + 0		25			•						





10 + 0

9 + 1



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		1);		
3 + 0	3 + 1	3+2	3 + 3	3 + 4	3 + 5	3+6	3 + 7			\mathbf{a}		A
4 + 0	4 + 1	4 + 2	<mark>4 + 3</mark>	4 + 4	4 + 5	4 + 6				9	-	4
5+0	5 + 1	5+2	5+3	5+4	5+5							
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4		' t'e r	rac	vticc	ייעע ב ^י	th a	not	thor
7 + 0	7 + 1	7 + 2	7 + 3	2 i.			Jiac			ura		
8+0	8 + 1	8+2			ex	pres	ssio	n!				





8 + Z

9 + 1

9 + 0

10 + 0



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			\sim
4 + 0	4 + 1	4 + 2	<mark>4 + 3</mark>	4 + 4	4 + 5	4 + 6]		9 - 4
5+0	5+1	5+2	5+3	5+4	5+5	<u> </u>	1			
6 + 0	6 + 1	6 + 2	6+3	6 + 4			!I		ا م ا	- 0
7 + 0	7 + 1	7 + 2	7 + 3			nat	is tr	ie w	/noi	e?
8+0	8+1	8+2		J						





8+1

9 + 1

8 + 0

9 + 0

10 + 0

8+2

Concept Development



	1+9	1+8	1 + 7	1 + 6	1 + 5	1 + 4	1 + 3	1+2	1 + 1	1+0
	4	2 + 8	2 + 7	2 + 6	2 + 5	2 + 4	2 + 3	2 + 2	2 + 1	2 + 0
\sim	8		3 + 7	3+6	3 + 5	3 + 4	3 + 3	3+2	3 + 1	3 + 0
9 - 4			<u>.</u>	4 + 6	4 + 5	4 + 4	<mark>4 + 3</mark>	4 + 2	4 + 1	4 + 0
					5+5	5+4	5+3	5+2	5 + 1	5+0
Vhat ia tha			hala	~ \	ТЬ	6 + 4	6 + 3	6 + 2	6 + 1	6 + 0
vnat is the	9: V		IIOIE	ew			7 + 3	7+2	7 + 1	7+0

known part?





10 + 0

9 + 1

Concept Development



1+0	1+1 1+2	1+3 1+4	1+5 1+	6 1+7 1+8
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	vvrite	e a nump
8 + 0	8 + 1 8 + 2		the r	nissing p

¹⁻⁹ 9 - 4

Write a number bond and leave the missing part empty for now!





1 + 8

2+8

1 + 9



1 + 7	1+6	1+5	1+4	1 + 3	1+2	1+1	1+0
2 + 7	2 + 6	2 + 5	2 + 4	2 + 3	2 + 2	2 + 1	2 + 0
3 + 7	3 + 6	3 + 5	3 + 4	3 + 3	3+2	3 + 1	3 + 0
	4 + 6	4 + 5	4 + 4	<mark>4 + 3</mark>	4 + 2	4 + 1	4 + 0
	(n)	5+5	5+4	5+3	5+2	5+1	5+0
~t	- - : - h	\	6 + 4	6 + 3	6 + 2	6 + 1	6 + 0
OI		VVſ		7 + 3	7+2	7 + 1	7+0
ha	ur c	yo			8 + 2	8 + 1	8 + 0
/ith	lk w	Ta				9 + 1	9+0
		iu					10.0

of the addition problems on art have a part that is 4? th your partner!





1+3

2 + 3

3 + 3

4 + 3

5 + 3

6+3

7 + 3

1 + 2

2+2

3+2

4+2

5 + 2

6 + 2

7+2

8+2

1 + 0

2 + 0

3 + 0

4 + 0

5 + 0

6 + 0

7 + 0

8 + 0

9 + 0

10 + 0

1 + 1

2 + 1

3 + 1

4+1

5 + 1

6+1

7 + 1

8+1

9 + 1



The ones here, going across. It's the row that starts with 4 + 0. There is one here, too, going down. It starts with 1 + 4.







The chart tells the parts but not the totals. Which of those problems has the same total as 9 - 4? Don't call out the answer!



2 + 0	2 + 1	2 + 2	2 + 3	2
3 + 0	3 + 1	3 + 2	3 + 3	3
4 + 0	4 + 1	4 + 2	<mark>4 + 3</mark>	_ _
5+0	5+1	5+2	5+3	5
6 + 0	6 + 1	6 + 2	6 + 3	6
7 + 0	7 + 1	7 + 2	7 + 3	-
8 + 0	8 + 1	8 + 2		
9+0	9+1			

+ 3



10 + 0





2 + 7

3+7

1 + 8

2+8

1 + 9



				1		
1 + 0	1 + 1	1+2	1 + 3	1 + 4	1+5	1+6
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6
4 + 0	4 + 1	4 + 2	<mark>4 + 3</mark>	- 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		4 -	- 5
8 + 0	8 + 1	8+2		J	on	
9+0	9+1		1			
10 + 0					nu	mb
14 million - 14 mi	ia di secondo di secon					

4 + 5 and 5 + 4! Let's color those on our addition part and fill in our number bond with the missing



1 + 5

2 + 5

3 + 5

4 + 5

5 + 5



Let's also color the total of our number bond yellow!







1 + 7

2 + 7

3 + 7

1 + 6

2 + 6

3+6

4+6

1 + 8

2 + 8

1 + 9

1 + 5

2 + 5

3 + 5

4 + 5

5 + 5



					•
ſ	1+0	1 + 1	1 + 2	1 + 3	1 + 4
ľ	2 + 0	2 + 1	2 + 2	2 + 3	2 + 4
	3 + 0	3 + 1	3 + 2	3 + 3	<mark>3 + 4</mark>
	4 + 0	4 + 1	4 + 2	4 + 3	4 + 4
	5+0	5 + 1	5+2	5+3	5+4
ľ	6 + 0	6 + 1	6 + 2	6 + 3	6 + 4
ľ	7 + 0	7 + 1	7 + 2	7 + 3	
ŀ	8 + 0	8 + 1	8 + 2		
	9+0	9 + 1			
ŀ	10 + 0				
		U.,			

Write the subtraction number sentence from the card we started with. Write the addition number sentence that helped us solve it.

5

9



4 1	1 + 4	3	1 -	2	1 -	1	1+	0	1 +
4 2	2 + 4	3	2 -	2	2 -	1	2 +	0	2 +
4 3	3 + 4	3	3 -	2	3 -	1	3 +	0	3 +
4 4	4 + 4	3	4	2	4 -	1	4 +	0	4 +
4 5	5 + 4	3	5 -	2	5 -	1	5+	0	5+
4	6 + 4	3	6 -	2	6 •	1	6 +	0	6 +
		3	7	2	7 -	1	7+	0	7 +
		_		2	8 -	1	8 +	0	8 +
				_	÷	1	9+	0	9+
								0	10 +



Here are those facts:

1 + 8

2+8

1 + 7

2 + 7

3+7

1 + 9

$$4 + 5 = 9$$





9 + 0

10 + 0

8 + 1

9 + 1

8 + 2

Concept Development



r

	1+9	1+8	1 + 7	1+6	1 + 5	1 + 4	1 + 3	1+2	1+1	1 + 0
		2 + 8	2 + 7	2 + 6	2 + 5	2 + 4	2 + 3	2+2	2 + 1	2 + 0
			3 + 7	3+6	3 + 5	3 + 4	3 + 3	3+2	3 + 1	3 + 0
1 - 5	C	60		4+6	4 + 5	4 + 4	<mark>4 + 3</mark>	4 + 2	4 + 1	4 + 0
					5+5	5 + 4	5+3	5+2	5 + 1	5+0
h anatha		, tiaa				6 + 4	6 + 3	6 + 2	6 + 1	6+0
i anothe		SUCE	Jiac	ISF	Le		7 + 3	7 + 2	7 + 1	7 + 0

expression!



10 + 0

9 + 1

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	3 4 + 4	4 + 5	4+6			
5+0	5 + 1	5+2 5+3	5+4	5+5		J		
6 + 0	6 + 1	6+2 6+3	6+4	١٨/.	i to		umb	OK
7+0	7 + 1	7+2 7+3			ILE	an	anno	er
8 + 0	8 + 1	8 + 2		the	e mi	issir	ng p	art

Write a number bond and leave the missing part empty for now!

- 5





9 + 0

10 + 0

8+1

9 + 1

8+2







8+2

7 + 3

7 + 1

8+1

9 + 1

7 + 0

8 + 0

9 + 0

10 + 0

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				Q	-	5	
5+0	5 + 1	5+2	5+3	5 + 4	5+5		1					J	
6+0	6 + 1	6 + 2	6+3	6+4		1							

The whole is 9! What is the known part?





1 + 7

2 + 7

3 + 7



5

1+5 1+6	1+4	+ 3	2	1.	+ 1	6	1 + 0
2+5 2+6	2 + 4	+ 3	2	2	+ 1	1 2	2 + (
3+5 3+6	3 + 4	+ 3	- 2	3 -	+ 1		3 + (
4+5 4+6	4 + 4	+ 3	2	4	+ 1	1	4 + (
5+5	5 + 4	+ 3	- 2	5	+ 1	1	5 + (
	6 + 4	+ 3	+ 2	6	+ 1		6 + (
гле к		+ 3	- 2	7	+ 1	1	7 + (
additi]	- 2	8	+ 1	1 8	8 + (
have					+ 1	1 9	9 + (
					ŝ)	10 +

The known part is 5! Which of the addition problems on your chart have a part that is 5? Talk with your partner!

1 + 9

1 + 8

2+8





2 + 0

3 + 0

4 + 0

5 + 0

6 + 0

7 + 0

8 + 0

9 + 0

10 + 0

1 + 1

2 + 1

3 + 1

4+1

5 + 1

6 + 1

7 + 1

8+1

9 + 1

1 + 3

2 + 3

3 + 3

4 + 3

5 + 3

6+3

7 + 3

6+4

1 + 2

2 + 2

3+2

4+2

5 + 2

6+2

7+2

8+2

Concept Development





The ones here, going across. It's the row that starts with 5 + 0. There is one here, too, going down. It starts with 1 + 5.





1 + 7

2+7

3+7

1 + 8

2 + 8

1+9



5

1+5 1+6	1 + 4	1 + 3	1+2	1 + 1	1+0
2+5 2+6	2 + 4	2 + 3	2+2	2 + 1	2 + 0
3+5 3+6	3 + 4	3 + 3	3+2	3 + 1	3+0
4+5 4+6	4 + 4	4 + 3	4 + 2	4 + 1	4 + 0
5+5	5+4	5+3	5+2	5 + 1	5+0
	6 + 4	6 + 3	6 + 2	6 + 1	6 + 0
i ne cr		7 + 3	7+2	7 + 1	7 + 0
totals.			8+2	8 + 1	8 + 0
samo]	9+1	9+0
Same					10 + 0

The chart tells the parts but not the totals. Which of those problems has the same total as 9 - 5? Don't call out the answer!





1 + 8

2 + 8

1 + 9







5



1 + 7

2 + 7

3 + 7

1 + 8

2

1 + 6

2 + 6

3+6

4+6



1 + 9

5





1 + 2

1 + 0

1 + 1

1 + 4

1 + 5

2 + 5

3 + 5

4 + 5

5 + 5

1 + 3





2 + 7

3 + 7

5

1 + 8

2 + 8

1 + 9

1 + 6

2 + 6

3+6

4+6



5

					•	
8	1+0	1 + 1	1+2	1 + 3	1 + 4	1+5
	2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5
	3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5
	4+0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5
	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				۲
	10 + 0	-	I			
12	1 C					

Write the subtraction number sentence from the card we started with. Write the addition number sentence that helped us solve it.

9





			↓				
1 + 7	1+6	1+5	1+4	1 + 3	1+2	1 + 1	1+0
2 + 7	2+6	2 + 5	2 + 4	2 + 3	2 + 2	2 + 1	2 + 0
3 + 7	3 + 6	3 + 5	3 + 4	3 + 3	3 + 2	3 + 1	3 + 0
	4 + 6	4 + 5	4 + 4	<mark>4 + 3</mark>	4 + 2	4 + 1	4+0
		5+5	5+4	5+3	5+2	5+1	5+0
e ar	lere		6 + 4	6 + 3	6+2	6 + 1	6+0
		0		7 * 3	7+2	7 + 1	7 + 0
) =	- 5	9			8+2	8 + 1	8 + 0
4 =	+ 2	5				9+1	9+0
•		Ŭ					10 + 0



re those facts:

1 + 8

2 + 8

$$5 + 4 = 9$$





Problem Set

Lesson 38 Problem Set 1.1

ame								Date		
1+9	1				6-	-	Pick	a subt	raction o	card.
1+8	2+8						fact shad	on the e it in.	chart a	nd
1+7	2+7	3+7					Writ	e the ence a	subtract nd a num	tion ber
1+6	2+6	3+6	4+6				Cont	to ma	itch. or at lea	st 6
1+5	2+5	3+5	4 + 5	5 + 5			turns	S.		
1.4	2 + 4	3+4	4 - 4	5 + 4	6+4					
1+3	2+3	3+3	4 + 3	5+3	6+3	7+3				
1.2	2+2	3+2	4+2	5+2	6+2	7 + 2		8+2		
:	2+1	3+1	4 • 1	5+1	6+1	7+1	61 - 1 61 - 3	8+1	9 • 1	
1.0	2+0	3+0	4+0	5+0	0+9	7+0		8+0	0+6	10 + 0

A STORY OF UNITS



Problem Set

	-	-	-	_			_
- 24	-		нγ	115	- 11/	44.1	
-	-	~		~			-

Lesson 38 Problem Set

On your addition chart, shade a square orange. Write the related subtraction fact in a space below with its number bond. Color all the totals orange.





Look at the subtraction problems we solved during the lesson. (Point to sequence of 7 - 4, 8–4,9–4, and 9–5.) What do you notice about these problems? Where are the helpful addition facts for these subtraction sentences located on your chart? How can solving the first one help you solve the next?



Look at your work from the class. What pattern do you notice on your chart? How are these subtraction facts related?



What is another set of subtraction facts that would make a cross on your chart?



When you worked through the Problem Set, was it tricky to put the totals in the right place? Why?



What tool did we use in a new way to solve subtraction problems today? Explain how the tool helped you.



How did the Application Problem connect totoday's lesson?

Exit Ticket

A STORY OF UNITS	Lesson 38 Exit Ticket
Name	Date
Write the related number sentences for	the number bonds.
1. 10 3	2. 9 3
=	=
* *	+=
	=
=	