

A Story of Units

### **Pleasanton** Mathematics Curriculum



## Grade 1 • MODULE 1

Sums and Differences to 10

## **PROBLEM SETS**

Video tutorials: http://embarc.online Info for parents: http://bit.ly/pusdmath

Version 3

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Module Assessments



Name \_\_\_\_\_ Date \_\_\_\_\_

Circle 5, and then make a number bond.



Put nail polish on the number of fingernails shown from left to right. Then, fill in the parts. Make the number of fingernails on one hand a part.



Lesson 1: Analyze and describe embedded numbers (to 10) using 5-groups and number bonds.

Make a number bond that shows 5 as one part.

















12.

10.





Lesson 1:

Analyze and describe embedded numbers (to 10) using 5-groups and number bonds.





Lesson 2:

 Reason about embedded numbers in varied configurations using number bonds.



9. How many pieces of fruit do you see? Write at least 2 different number bonds to show different ways to break apart the total.





Lesson 2:

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2: Reason about embedded numbers in varied configurations using number bonds.

Name

Date\_\_\_\_\_

Draw one more in the 5-group. In the box, write the numbers to describe the new picture.





Lesson 3:

See and describe numbers of objects using *1 more* within 5-group configurations.



9. Imagine adding 1 more backpack to the picture. Then, write the numbers to match how many backpacks there will be.



1 more than 7 is .
+ 1 =

Lesson 3:

See and describe numbers of objects using *1 more* within 5-group configurations.

Name

Date \_\_\_\_\_

#### Ways to Make 6.

Use the apple picture to help you write all of the different ways to make 6.



Lesson 4:

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Represent *put together* situations with number bonds. Count on from one embedded number or part to totals of 6 and 7, and generate all addition expressions for each total.



EUREKA MATH Lesson 5:

Represent *put together* situations with number bonds. Count on from one embedded number or part to totals of 6 and 7, and generate all addition expressions for each total.



7 children picture card



Lesson 5:

Represent *put together* situations with number bonds. Count on from one embedded number or part to totals of 6 and 7, and generate all addition expressions for each total.

Name	Date	
Circle the part. Count on to show 8 with the picture and number bond. Write the expressions.	Circle 7	1 + 7 7 + 1

1. Circle 6. How many more does 6 need to make 8?



2. Circle 5. How many more does 5 need to make 8?



3. Circle 4. How many more does 4 need to make 8?





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Represent *put together* situations with number bonds. Count on from one embedded number or part to totals of 8 and 9, and generate all expressions for each total.

4. These number bonds are in an order starting with the biggest part first. Write to show which number bonds are missing.



5. Use the expression to write a number bond and draw a picture that makes 8.



6. Use the expression to write a number bond and draw a picture that makes 8.





Lesson 6:

Represent *put together* situations with number bonds. Count on from one embedded number or part to totals of 8 and 9, and generate all expressions for each total.

Name	Date		
Circle the part. Count on to show 9 with the picture and number bond. Write the expressions.	Circle 8.		

1. Circle 7. How many more does 7 need to make 9?



2. Circle 4. How many more does 4 need to make 9?



3. Circle 3. How many more does 3 need to make 9?



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ATH





Lesson 7:

Represent *put together* situations with number bonds. Count on from one embedded number or part to totals of 8 and 9, and generate all expressions for each total.

4. Draw a line to show partners of 9.



5. Write a number bond for each partner of 9. Use the partners above for help.



Name \_\_\_\_\_

Date \_\_\_\_\_

1. Use your bracelet to show different partners of 10. Then, draw the beads. Write an expression to match.





Lesson 8:

Represent all the number pairs of 10 as number bonds from a given scenario, and generate all expressions equal to 10.

2. Match the partners of 10. Then, write a number bond for each partner.



EUREKA MATH Lesson 8: Represent all the number pairs of 10 as number bonds from a given scenario, and generate all expressions equal to 10.

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Make a number bond to match the story.

Lesson 9:









Lesson 9: Solve add to with result unknown and put together with result unknown math stories by drawing, writing equations, and making statements of the solution. Name

1. Use the picture to write the number sentence and the number bond.





Lesson 10: Solve *put together with result unknown* math stories by drawing and using 5-group cards.

4. Draw a line from the picture to the matching 5-group cards.





Lesson 10:

**0:** Solve *put together with result unknown* math stories by drawing and using 5-group cards.

Name

Date\_\_\_\_\_

1. Jill was given a total of 5 flowers for her birthday. Draw more flowers in the vase to show Jill's birthday flowers.



2. Kate and Nana were baking cookies. They made 2 heart cookies and then made some square cookies. They made 8 cookies altogether. How many square cookies did they make? Draw and count on to show the story.



Write a number sentence and a number bond to match the story.







11: Solve *add to with change unknown* math stories as a context for counting on by drawing, writing equations, and making statements of the solution.

This work is derived from Eureka Math <sup>™</sup> and licensed by Great Minds. G1-M1-SF-13.0-05.2015 Show the parts. Write a number bond to match the story.



3. Bill has 2 trucks. His friend, James, came over with some more. Together, they had 5 trucks. How many trucks did James bring over?





James brought over \_\_\_\_\_ trucks.

Write a number sentence to explain the story.



4. Jane caught 7 fish before she stopped to eat lunch. After lunch, she caught some more. At the end of the day, she had 9 fish. How many fish did she catch after lunch?





Lesson 11:

L1: Solve *add to with change unknown* math stories as a context for counting on by drawing, writing equations, and making statements of the solution.



4. Kate and Bob had 6 balls at the park. Kate had 2 of the balls.		
balls =balls +balls		
Bob had balls at the park.		
5. I had 3 apples. My mom gave me some more. Then, I had 10 apples. How many apples did my mom give me?		
applag + applag = applag		
Mom gave me apples.		
<b>EUREKA</b> Lesson 12: Solve <i>add to with change unknown</i> math stories using 5-group cards.	51	

Name

Date \_\_\_\_\_

With a partner, create a story for each of the number sentences below. Draw a picture to show. Write the number bond to match the story.

1. 6 + 2 =









Lesson 13:

**13:** Tell put together with result unknown, add to with result unknown add to with change unknown stories from equations.





### 4. 6 + = 10





Lesson 13:

**13:** Tell *put together with result unknown, add to with result unknown add to with change unknown* stories from equations.





Lesson 14:

**Count on up to 3 more using numeral and 5-group cards and fingers to track the change.** 



4. Use your 5-group cards to count on to add. Try to use as few dot cards as you can.



5. Use your 5-group cards, your fingers, or your known facts to count on to add.





Lesson 14: Count on up to 3 more using numeral and 5-group cards and fingers to track the change.



Count on up to 3 more using numeral and 5-group cards and fingers to track the change.

2. What shortcut or efficient strategy can you find to add?





Lesson 15: Count on up to 3 more using numeral and 5-group cards and fingers to track the change.

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Name	Date
<ol> <li>Draw more apples to solve 4 + ? = 6.</li> </ol>	
4 + = 6	
I added apples to the t	ree.

2. How many more to make 7?



3. How many more to make 8?



4. How many more to make 9?





Lesson 16:

6: Count on to find the unknown part in missing addend equations such as 6 + \_\_ = 9. Answer, "How many more to make 6, 7, 8, 9, and 10?"





Lesson 16: Count on to find the unknown part in missing addend equations such as 6 + \_ = 9. Answer, "How many more to make 6, 7, 8, 9, and 10?"

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Lesson 17: Understand the meaning of the equal sign by pairing equivalent expressions and constructing true number sentences



g. Find two sets of expressions from (a)-(f) that are equal. Connect them below with = to make true number sentences.



g. Find two sets of expressions from (a)-(f) that are equal. Connect them below with = to make true number sentences.



Lesson 17: Understand the meaning of the equal sign by pairing equivalent expressions and constructing true number sentences

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Add. Color the balloons that match the number in the boy's mind. Find expressions that are equal. Connect them below with = to make true number sentences.







Lesson 18: Understand the meaning of the equal sign by pairing equivalent expressions and constructing true number sentences.


Lesson 18: Understand the meaning of the equal sign by pairing equivalent expressions and constructing true number sentences.

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Date \_\_\_\_\_

 Write the number bond to match the picture. Then, complete the number sentences.
 a.

= 5 + = 5 = = b. 8 8 = = с. = + \_ =



Lesson 19:

**19:** Represent the same story scenario with addends repositioned (the commutative property).

Write the expression under each plate. Add the equal sign to show they are the same amount.





4. Draw to show the expression.



5. Draw and write to show 2 expressions that use the same numbers and have the same total.





Lesson 19: Represent the same story scenario with addends repositioned (the commutative property).

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Date	

Circle the larger amount and count on. Write the number sentence, starting with the larger number.





**Lesson 20:** Apply the commutative property to count on from a larger addend.

Color the larger part of the bond. Count on from that part to find the total, and fill in the number bond. Complete the first number sentence, and then rewrite the number sentence to start with the larger part.



Circle the larger number, and count on to solve.





Lesson 20: Apply the commutative property to count on from a larger addend.

Name

Date

Add the numbers on the pairs of cards. Write the number sentences. Color doubles red. Color doubles plus 1 blue.





Solve. Use your doubles to help. Draw and write the double that helped.





7. Solve the doubles and the doubles plus 1 number sentences.



9. Write a set of 4 related addition facts for the number sentences of Problem 7(d).



a

10

orange

6 + 1

7

Name

Date

- 1. Use RED to color boxes with 0 as an addend. Find the total for each.
- 2. Use ORANGE to color boxes with 1 as an addend. Find the total for each.
- 3. Use YELLOW to color boxes with 2 as an addend. Find the total for each.
- 4. Use GREEN to color boxes with 3 as an addend. Find the total for each.
- 5. Use BLUE to color the boxes that are left. Find the total for each.

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									



Name

Date\_\_\_\_\_

Use your chart to write a list of number sentences in the spaces below.

Totals of 10	Totals of 9	Totals of 8	Totals of 7



23: Look for and make use of structure on the addition chart by looking for and coloring problems with the same total.

-

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

addition chart from Lesson 21







Name

Break the total into parts. Write a number bond and addition and subtraction number sentences to match the story.



1. Rachel and Lucy are playing with 5 trucks. If Rachel is playing with 2 of them, how many is Lucy playing with?



2. Jane caught 9 fish. She caught 7 fish before she ate lunch. How many fish did she catch after lunch?





Lesson 25:

25: Solve add to with change unknown math stories with addition, and relate to subtraction. Model with materials, and write corresponding number sentences.

This work is derived from Eureka Math <sup>™</sup> and licensed by Great Minds. G1-M1-SF-13.0-05.2015 3. Dad bought 6 shirts. The next day he returned some of them. Now, he has 2 shirts. How many shirts did Dad return?



4. John had 3 strawberries. Then, his friend gave him more fruit. Now, John has 7 pieces of fruit. How many pieces of fruit did John's friend give him?





Lesson 25:

n 25: Solve add to with change unknown math stories with addition, and relate to subtraction. Model with materials, and write corresponding number sentences.

Name	Date
	Dure

Use the number path to solve.





Lesson 26: Count on using the number path to find an unknown part.

Use the number path to help you solve.







Use the number path to count on.

6. **8 - 4 =** \_\_\_\_\_ 4 + = 8 7. **9 - 5 =** 5+ = 9





Hop back on the number path to count back.

- 8. 10 1 = \_\_\_\_\_ 9. 9 2 = \_\_\_\_\_
- 10. Pick the best way to solve the problem. Check the box.





N	a	m	e

|--|

Read the story. Draw a horizontal line through the items that are leaving the story.

Then, complete the number bond, sentence, and statement.

There are 5 toy airplanes flying at the park.
 One went down and broke.
 How many airplanes are still flying?





I had 6 eggs from the store.
 Three of them were cracked.
 How many eggs did I have that were not cracked?





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Lesson 28: Solve take from with result unknown math stories with math drawings, true number sentences, and statements, using horizontal marks to cross off what is taken away. This work is derived from Eureka Math ™ and licensed by Great Minds.

Draw a number bond and math drawing to help you solve the problems.

3.	Kate saw 8 cat Three went an How many cats	s playing in vay to chase remained i	the grass. a mouse. n the grass?			
				_ =	_	
	cat	s remained	in the grass.			
4.	There were 7 Two of them w How many man	mango slices vere eaten. Igo slices arc	s. e left to eat?	1		
				_ =	()(	
	There are	man	go slices left			
E	UREKA AATH	Lesson 28: This work is derived fro G1-M1-SE-1.3.0-05.2015	Solve <i>take from with re</i> true number sentence: cross off what is taken m Eureka Math <sup>™</sup> and licensed	esult unknown math sto s, and statements, usinį away. d by Great Minds.	pries with math drawings, g horizontal marks to	108



\_\_\_ books are on the bottom shelf.



Lesson 29:

**29:** Solve *take apart with addend unknown* math stories with math drawings, equations, and statements, circling the known part to find the unknown.

Use number bonds and math drawings in a line to solve.

 There are 8 animals at the pond. Two are big. The rest are small. How many are small?





\_\_\_\_\_ animals are small.

4. There are 7 students in the class.\_\_\_\_\_\_ students are girls.How many students are boys?



\_\_\_\_ students are boys.



Lesson 29:

**n 29:** Solve *take apart with addend unknown* math stories with math drawings, equations, and statements, circling the known part to find the unknown.

Name

Date	

Solve the math stories. Complete and label the number bond and the picture number bond. Lightly shade in the solution.

1. Jill was given a total of 5 flowers for her birthday. She put 3 in one vase and the rest in another vase. How many flowers did she put in the other vase?



2. Kate and Nana were baking cookies. They made 5 heart-shaped cookies and then made some square cookies. They made 8 cookies altogether. How many square cookies did they make? Draw and solve.





Lesson 30:

**30:** Solve *add to with change unknown* math stories with drawings, relating addition and subtraction.

Solve. Complete and label the number bond and the picture number bond. Circle the unknown number.



 Bill has 2 trucks. His friend James came over with some more. Together, they have 6 trucks. How many trucks did James bring over?



James brought over \_\_\_\_\_ trucks.

4. Jane caught 5 fish before she stopped to eat lunch. After lunch, she caught some more. At the end of the day, she had 9 fish. How many fish did she catch after lunch?



Jane caught \_\_\_\_\_ fish after lunch.

Lesson 30:

**30:** Solve *add to with change unknown* math stories with drawings, relating addition and subtraction.

Date \_\_\_\_\_

2

Name \_\_\_\_\_

Make a math drawing, and circle the part you know. Cross out the unknow	n part.
Complete the number sentence and number bond.	
<ol> <li>Kate made 7 cookies. Bill ate some. Now, Kate has 5 cookies. How many cookies did Bill eat?</li> </ol>	Sample: 3 - 1 = 2
OOOOO	]
	=
Bill ate cookies.	

2. On Monday, Tim had 8 pencils. On Tuesday, he lost some pencils. On Wednesday, he has 4 pencils. How many pencils did Tim lose?





Lesson 31: Solve take from with change unknown math stories with drawings. 3. A store had 6 shirts on the rack. Now, there are 2 shirts on the rack. How many shirts were sold?



4. There were 9 children at the park. Some children went inside. Five children stayed.

shirts were sold.

How many children went inside?





Name	Date

Solve. Use simple math drawings to show how to solve with addition and subtraction. Label the number bond.



## 2.

There are 8 mushrooms. Five are black. The rest are white. How many mushrooms are white?



\_\_\_\_ mushrooms are white.





8

Use the number bond to complete the number sentences. Use simple math drawings to tell math stories.





Lesson 32: Solve put together/take apart with addend unknown math stories.

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Name		Date
Cross off, when needed, to subtract.	2.	
6 - 1 =		6 - 0 =

If you want, make a 5-group drawing for each problem like the ones above. Show the subtraction.

3.		4.	
	7 - 1 =		7 - 0 =
5.		6.	
	10 - 1 =		10 - 0 =
7.		8.	
	8 - 1 =		8 - 0 =
9.		10.	
	9 - 1 =		9 - 0 =

Lesson 33: Model 0 less and 1 less pictorially and as subtraction number sentences.

Cross off, when needed, to subtract.



14. $7 - 1 = $ 15. $8 - 0 = $ 16. $9 - 1 = $	16. <b>9 - 1 =</b>
--	--------------------

- 17. Fill in the missing number. Visualize your 5-groups to help you.
  - a. 6 0 =b. 6 1 =c. 7 -= 7d. 7 1 =e. 8 0 =f. 8 -f. 8 -= 7g. 9 -= 9h. 9 1 =j. 10 -= 9



Lesson 33: Model 0 less and 1 less pictorially and as subtraction number sentences.

Name			Date			
Cross off to subtract.						
1.		2.				
6 -	6 =		6 - 5 =			
Subtract. Make a math drawing, like those above, for each.						
3.		4.				
7 -	7 =		7 - 6 =			
5.		6.				
10	- 10 =		10 - 9 =			
7.		8.				
8 -	8 =		8 - 7 =			
9.		10.				
9 -	9 =		9 - 8 =			



Cross off, when needed, to subtract.



Subtract. Make a math drawing, like those above, for each.

14. 15. 16.

- 17. Fill in the missing number. Visualize your 5-groups to help you.
  - a. 6 6 =b. 6 5 =c. 7 -= 0d. 7 6 =e. 8 8 =f. 8 -g. 9 -= 0h. 9 8 =j. 10 -i. 10 -= 10



**Lesson 34:** Model n - n and n - (n - 1) pictorially and as subtraction sentences.



Subtract. Make a math drawing for each problem like the ones above. Write a number bond.

5.

4.



7 - 5 = \_\_\_\_ 7 - 2 = \_\_\_\_ 10 - 5 = \_\_\_\_



6. Solve. Visualize your 5-groups to help you.



13. Complete the number sentences below. Circle the strategy that can help.





Lesson 35: Relate subtraction facts involving fives and doubles to corresponding decompositions.



Make a math drawing and solve.





Subtract. Then, write the related subtraction sentence.

Make a math drawing if needed, and complete a number bond for each.



11. Fill in the missing part. Write the 2 matching subtraction sentences.





Lesson 36: Relate subtraction from 10 to corresponding decompositions.

Name \_\_\_\_\_ Date \_\_\_\_

Solve the sets. Cross off on the 5-groups. Write the related subtraction sentence that would have the same number bond.



Make a 5-group drawing. Solve, and write a related subtraction sentence that would have the same number bond. Cross off to show.





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Subtract. Then, write the related subtraction sentence. Make a math drawing if needed, and complete a number bond.



11. Fill in the missing part. Write the 2 matching subtraction sentences.





Lesson 37: Relate subtraction from 9 to corresponding decompositions.

Name							_ Date				
1+9	1				6 - 1	]- β	Pick	a subt	traction	card.	
1+8	2 + 8						fact on the chart and shade it in.				
1+7	2+7 3+7						Write the subtraction sentence and a number				
1+5 1+6	2+5 2+6	3+5 3+6	4+6				bond to match. Continue for at least 6				
			4 + 5	5+5			turns.				
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			
1+1	2+1	3+1	4+1	5+1	6+1	7+1	2	8 + 1	9+1		
1+0	2+0	3+0	4+0	5+0	0+9	0+2		8+0	0+6	10 + 0	



Lesson 38:

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

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.





Lesson 38:

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

Lesson 39:

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

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1+8	2+8						ct on th	ence and e.	l facts.	50
1+7	2 + 7	3 + 7				ard.	dition fa n.	ion sente 1 sentenc	o relatec	t 4 turns
1+6	2+6	3 + 6	4 + 6			action c	lated ad hade it i	subtract additior	other tw	r at leas
1+5	2 + 5	3 + 5	4 + 5	5+5		k a subtr	d the re art and s	ite the s shaded	ite the (	ntinue fo
1+4	2 + 4	3 + 4	4 + 4	5 + 4	6 + 4	Pic	Finche	Wr the	Ň	Co
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+1	2+1	3+1	4+1	5+1	6+1	7+1	8 + 1	9+1		
1+0	2+0	3 + 0	4+0	5 + 0	0+9	0+2	8 + 0	0+6	10 + 0	

## Study the addition chart to solve and write related problems.

Name

5 +

Date \_\_\_\_\_

he

p

1.

3.

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

=

Ξ

Ξ

Ξ

Ξ

Ξ







Lesson 39:

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

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