Eureka Math

1st Grade
Module 1
Lesson 16

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Directions for customizing presentations are available on the next slide.

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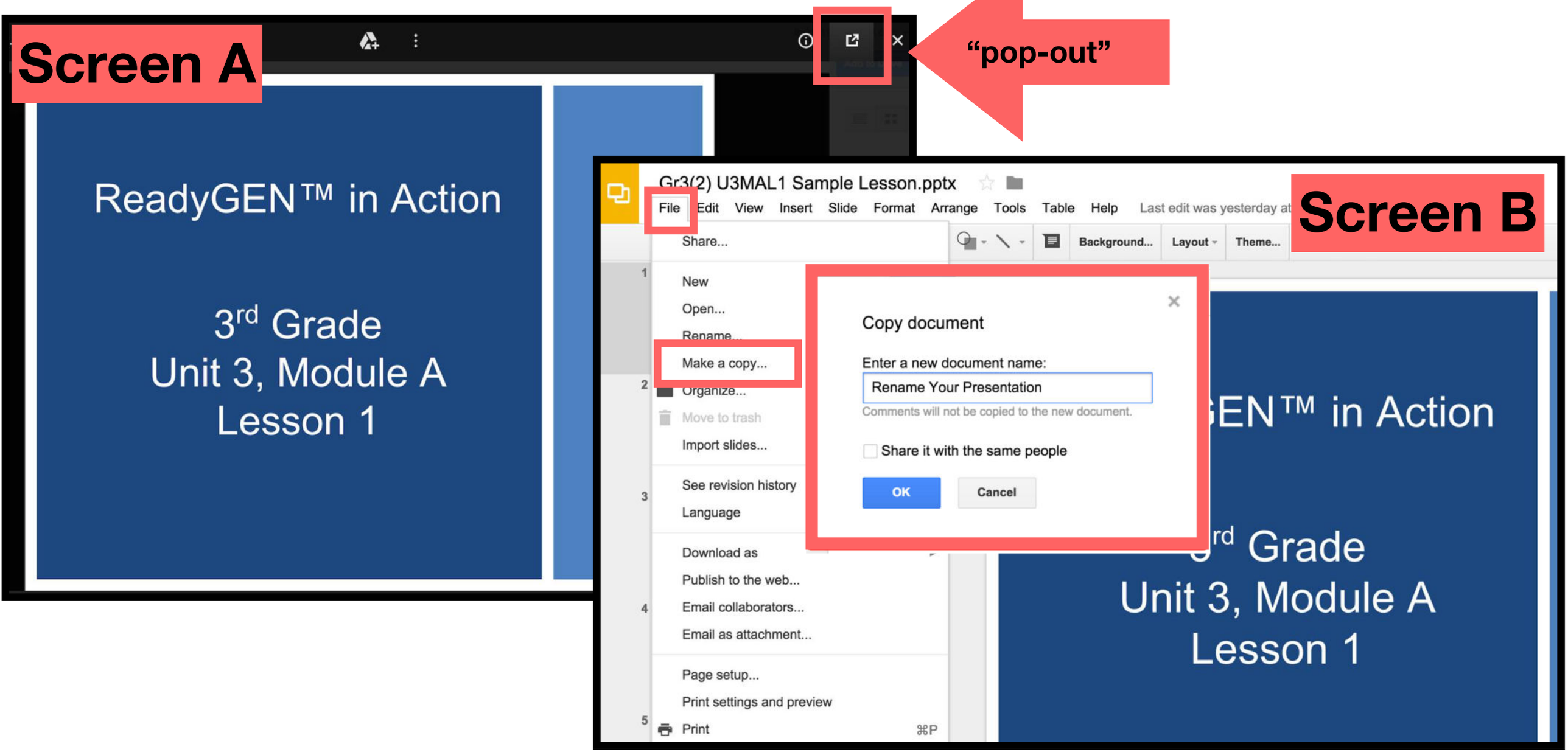


Icons

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

Materials Needed

- (S) 7 two-color beans per set of partners
- (S) Personal whiteboard for students
- (S) Shake Those Disks 7 Board (Fluency Template)
- (T) 5-group cards (Lesson 5 Template 1),
- (T) mystery box,
- (T/S) enlarged blank number sentence and number bond (Lesson 6 Template 2)
- (S) number sentence cards (Lesson 11 Template), sticky notes with question marks

Important Prep:

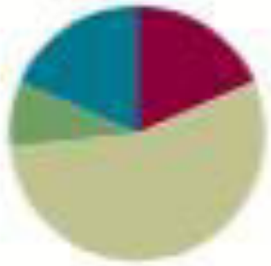
- Take 7 disks and hide 2 of the disks under the carpet before Concept Development

Lesson 16

Objective: 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?"

Suggested Lesson Structure

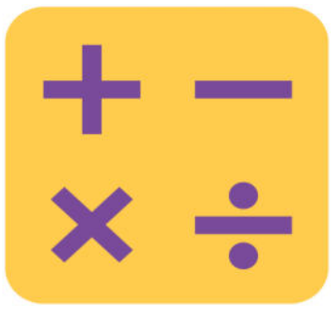
Fluency Practice	(11 minutes)
Application Problem	(5 minutes)
Concept Development	(33 minutes)
Student Debrief	(11 minutes)
Total Time	**(60 minutes)**



I can count on to find the unknown part in missing addend equations such as 6+__=9 and answer,“How many more to make 6, 7, 8, 9, and 10?”

Shake Those Disks

I will assign you partners. Each set of partners will get 7 two-color beans. Take turns as the Shaker and the Recorder. The Shaker shakes the disks and tosses them on the table. The Recorder then records the roll on the Shake Those Disks graph. (For example, if the Shaker rolls 3 red and 4 white, the Recorder puts an X on the graph above the 3 and 4 number bond.)

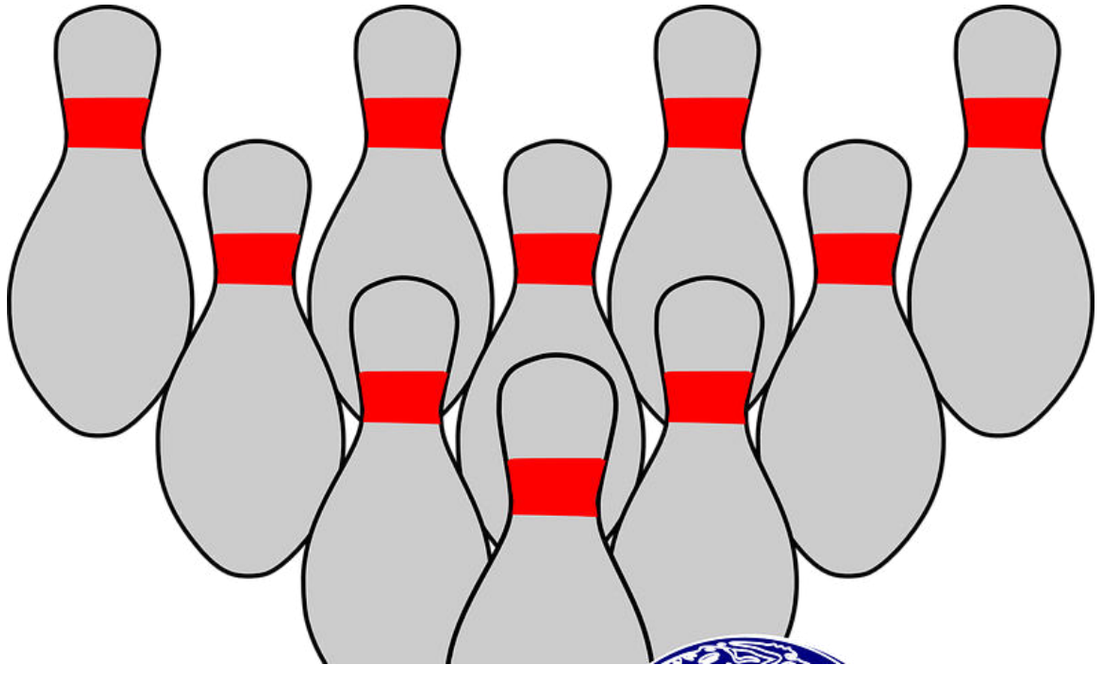


Count On Drums: 3 More

I will say a number aloud. You repeat the number, drumming on the table to count on 3 and matching one drum tap with each consecutive number counted on. We can extend the game by counting back 3.

10 Bowling Pins

Look at the arrangement and discuss with a partner how many pins you see and how you know. Share different ways of knowing it is 10.



Application Problem

There were 10 bowling pins standing. Finn knocked over some bowling pins, and 7 were still standing. How many did he knock over? Use a simple math drawing to show what you did to solve. Write a number sentence with a box to show the mystery or unknown number.

Concept Development

While we were cleaning up, some of the counters fell on the carpet. I picked most of them up, but I think I am still missing some. We had 7 counters in total, right?

Concept Development

Now, I have 5 counters.

Concept Development

How many am I missing? Talk with your partner to solve this.

Concept Development

Let’s try to count on to check how many I’m missing.

Concept Development

How many did we count on to get up to 7?

Concept Development

So, how many counters am I missing?

Concept Development

Let’s check!

Concept Development

Use your 5-group cards to make the number sentence on your personal white board. Place the numeral side up. If you want to double-check your number sentence, turn the cards to the dot side. Remember, try to turn over the fewest cards you can and count on.

Concept Development

I'll repeat that process again using the mystery box to hide some of the 7 counters! I will hide some counters, and then you will count on with your fingers to find the mystery number. Then we'll build the equation with our 5-group cards on personal whiteboards!

Concept Development

Now let’s use the our counters, 5-group cards, and and mystery box to solve these sets of problems!

5 + __ =6

4 + __ =6

3 +__ =6

Concept Development

6 + __ =7

5 + __ =7

4 +__ =7

Concept Development

7 + __ =8

6 + __ =8

5 + __ =8

Concept Development

8 + __ =9

7 + __ =9

6 + __ =9

Concept Development

9 + __ =10

8 + __ =10

7 + __ =10

Concept Development

Let's explore the patterns of the answers we solved!

5 + 1 =6	42+ __ =6	33 + __ =6
6 + 1 =7	52+ __ =7	34 + __ =7
7 + 1 =8	62+ __ =8	35 + __ =8
8 + 1 =9	72+ __ =9	36 + __ =9
9 + 1 =10	82+ __ =10	37 + __ =10

Concept Development

Imagine there's a fourth column. What number sentence do you think I'll add to each row?

5 + 1 =6	42 + __ =6	33 + __ =6
6 + 1 =7	52 + __ =7	34 + __ =7
7 + 1 =8	62 + __ =8	35 + __ =8
8 + 1 =9	72 + __ =9	36 + __ =9
9 + 1 =10	82 + __ =10	37 + __ =10

Concept Development

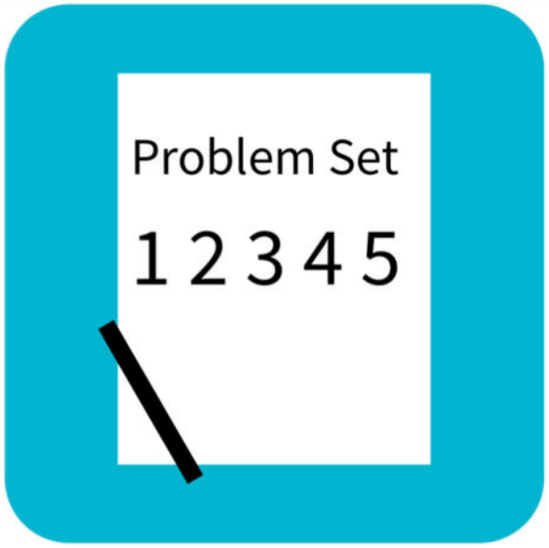
How do the parts change from one sentence to the other?

5 + 1 =6	42+ ___ =6	33 +___ =6
6 + 1 =7	52+ ___ =7	34 +___ =7
7 + 1 =8	62+ ___ =8	35 + ___ =8
8 + 1 =9	72+ ___ =9	36 + ___ =9
9 + 1 =10	82+ ___ =10	37 + ___ =10

Concept Development

What strategies did we use to solve for these missing parts?

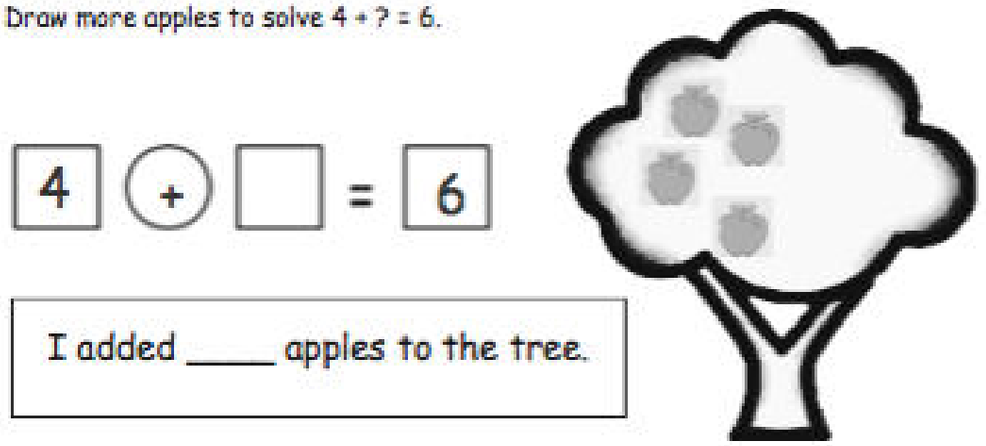
5 + 1 =6	42+ __ =6	33 +__ =6
6 + 1 =7	52+ __ =7	34 +__ =7
7 + 1 =8	62+ __ =8	35 + __ =8
8 + 1 =9	72+ __ =9	36 + __ =9
9 + 1 =10	82+ __ =10	3 7 + __ =10



Problem Set

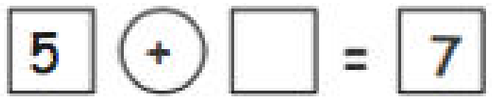
Name _____ Date _____

1. Draw more apples to solve 4 + ? = 6.

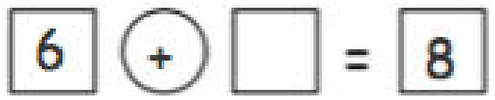


I added ____ apples to the tree.

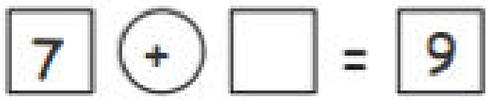
2. How many more to make 7?

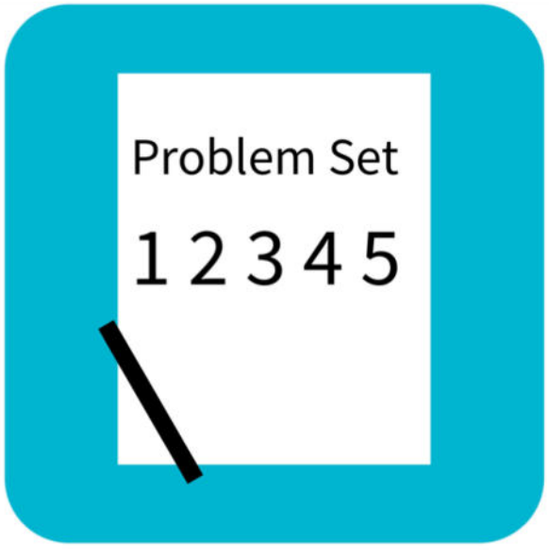


3. How many more to make 8?



4. How many more to make 9?





Problem Set

3 ○ 1 = 4

5. Count on to add. Circle the strategy you used to keep track.

a. 4 + ☐ = 5

b. 4 + ☐ = 7

c. 8 = 5 + ☐

d. 10 = ☐ + 8

e. 7 + ☐ = 8

f. ☐ + 5 = 7

g. 8 = 6 + ☐

h. 10 = ☐ + 7

Debrief

- Look at Problems 3 and 4 on the Problem Set. What do you notice is the same about these problems? What do you notice is different?
- How can it be true that all the unknown numbers, the mystery numbers, are the same on the first page?
- Look at the Application Problem and the last problem in the Problem Set. What strategies did you use to solve the problems? How are these problems the same? How are they different? How can the parts from the bowling pin problem help you solve the last Problem Set problem?
- On the Problem Set, you could pick from lots of tools or strategies. You could have kept track on your fingers, used 5-group cards, or known it in your head. Share with your partner: What do you notice about how you solved most of your problems? Why did you pick that tool or strategy the most?

Exit Ticket

Name _____ Date _____

Solve the number sentences. Circle the tool or strategy you used.

a. 5 + ☐ = 7

I counted on using  

Or

I just knew 

---

b. 6 + ☐ = 9

I counted on using  

Or

I just knew