

Eureka Math

2nd Grade Module 6 Lesson 19

At the request of elementary teachers, a team of Bethel & Sumner educators met as a committee to create Eureka slideshow presentations. These presentations are not meant as a script, nor are they required to be used. Please customize as needed. Thank you to the many educators who contributed to this project!

Directions for customizing presentations are available on the next slide.

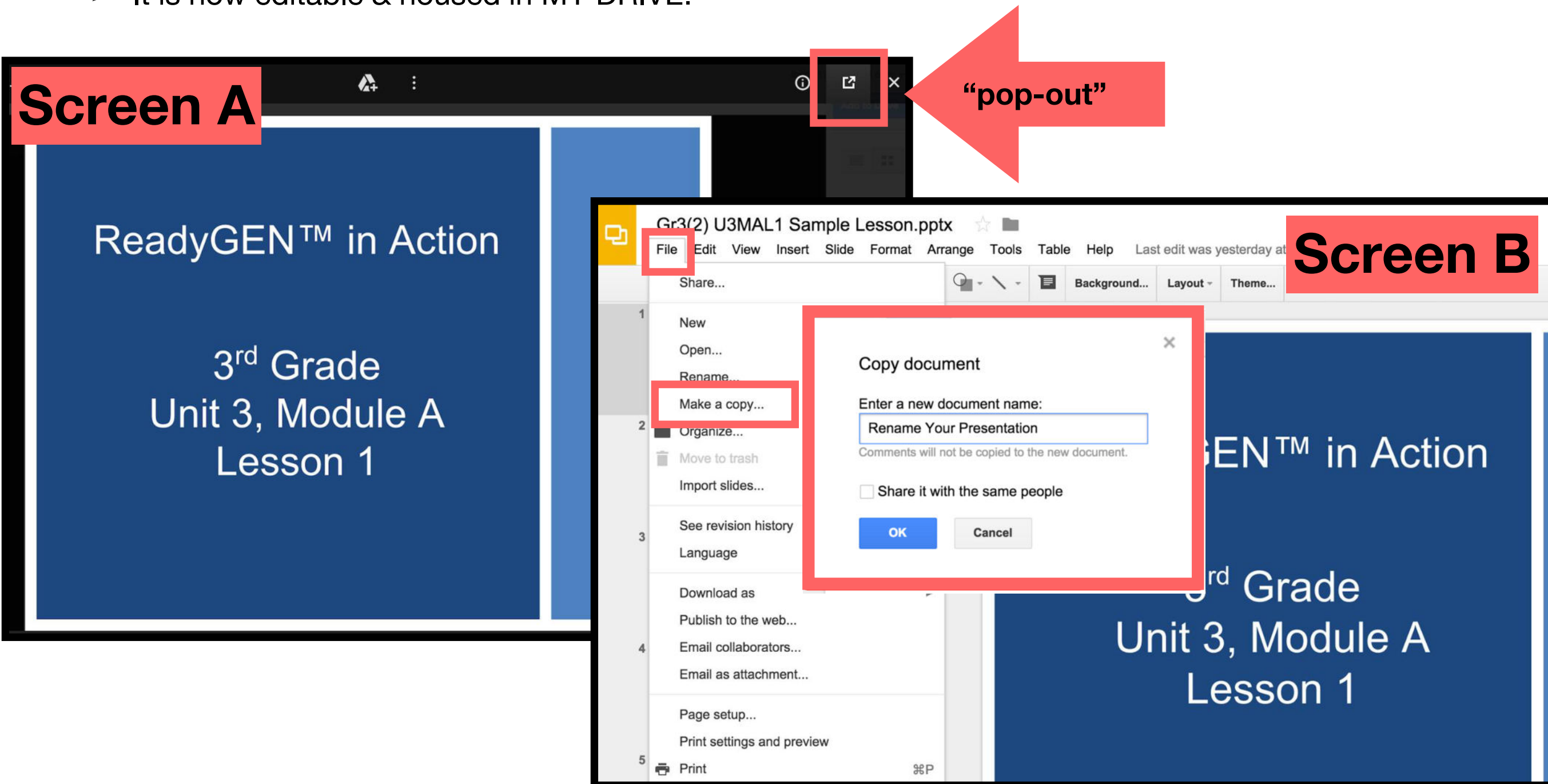


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Customize this Slideshow

Reflecting your Teaching Style and Learning Needs of Your Students

- When the Google Slides presentation is opened, it will look like Screen A.
- Click on the “pop-out” button in the upper right hand corner to change the view.
- The view now looks like Screen B.
- Within Google Slides (not Chrome), choose FILE.
- Choose MAKE A COPY and rename your presentation.
- Google Slides will open your renamed presentation.
- It is now editable & housed in MY DRIVE.



Icons



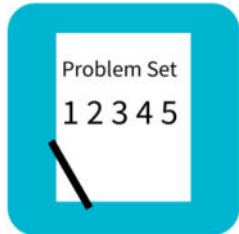
Read, Draw, Write



Learning Target



Personal White Board



Problem Set



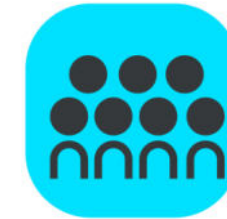
Manipulatives Needed



Fluency



Think Pair Share



Whole Class



Individual



Partner



Small Group



Small Group Time



Materials Needed:

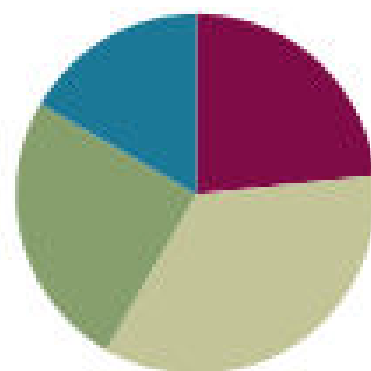
- (S) Sums to the Teens Sprint
- (S) 20 Square tiles

Lesson 19

Objective: Investigate the pattern of even numbers: 0, 2, 4, 6, and 8 in the ones place, and relate to odd numbers.

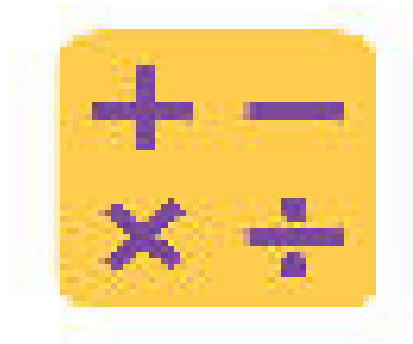
Suggested Lesson Structure

■ Fluency Practice	(14 minutes)
■ Concept Development	(21 minutes)
■ Application Problem	(15 minutes)
■ Student Debrief	(10 minutes)
Total Time	(60 minutes)





- I can investigate the pattern of even numbers: 0, 2, 4, 6, and 8 in the ones place, and relate to odd numbers.



Make the Next 10 to Add

When I say “9 + 4”, you say “10 + 3” Ready? 9+4

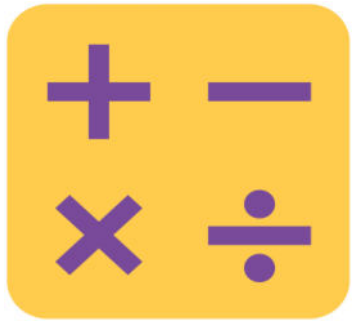
$$9 + 6,$$

$$9 + 16,$$

$$19 + 16$$

Continue with... 9+8, 9+18, 19+18, 8+7, 8+17, 18+17, 8+5, 8+15, 18+15,
7+6, 7+16, 17+16, 7+4, 17+4, 17+14

Sprint



A

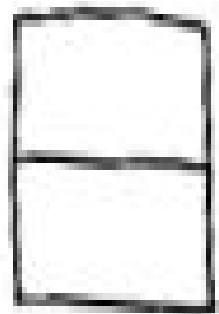
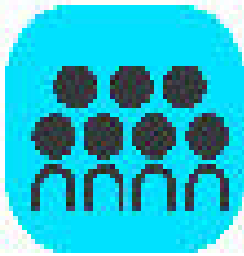
Number Correct: _____

Sums to the Teens

1.	$9 + 2 =$	
2.	$9 + 3 =$	
3.	$9 + 4 =$	
4.	$9 + 7 =$	
5.	$7 + 9 =$	
6.	$10 + 1 =$	
7.	$10 + 2 =$	
8.	$10 + 3 =$	
9.	$10 + 8 =$	
10.	$8 + 10 =$	
11.	$8 + 3 =$	

23.	$4 + 7 =$	
24.	$4 + 8 =$	
25.	$5 + 6 =$	
26.	$5 + 7 =$	
27.	$3 + 8 =$	
28.	$3 + 9 =$	
29.	$2 + 9 =$	
30.	$5 + 10 =$	
31.	$5 + 8 =$	
32.	$9 + 6 =$	
33.	$6 + 9 =$	

Concept Development



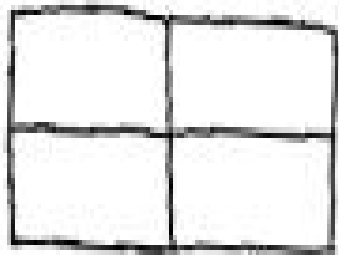
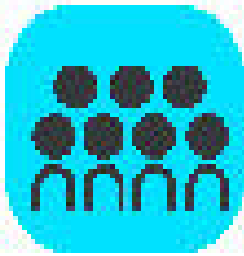
0 1 2 3 4 5 6 7 8 9 10 11

How many rows do you have?

How many tiles do you have in each row?

Say the doubles equation by adding the number in each row.

Concept Development



0 1 (2) 3 (4) 5 6 7 8 9 10 11

Is 2 an even number?

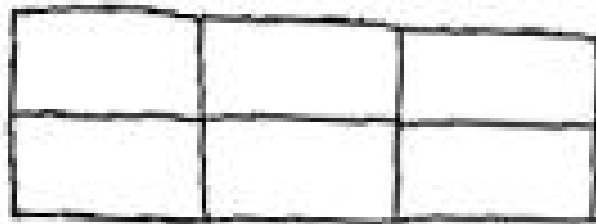
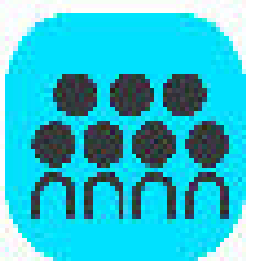
Now how many columns of 2 do you have?

How many rows do you have?

Say the doubles equation.

Is 4 an even number?

Concept Development



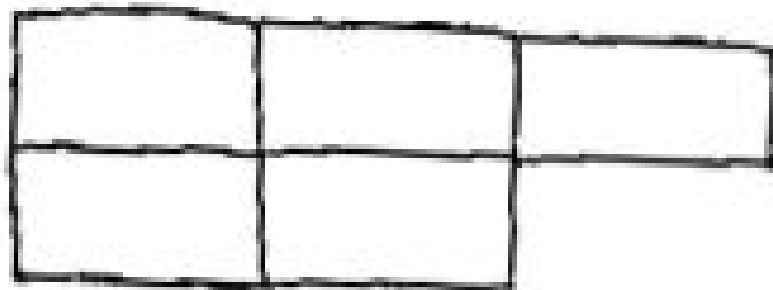
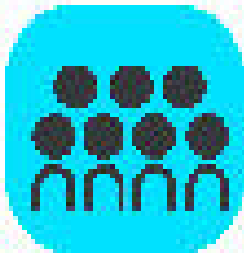
0 1 2 3 4 5 6 7 8 9 10 11

How many columns of 2 do you have now?

What do you notice about the numbers we circled? Do you see a pattern?

What do you notice about the numbers that are not circled?

Concept Development



0 1 (2) 3 (4) 5 (6) 7

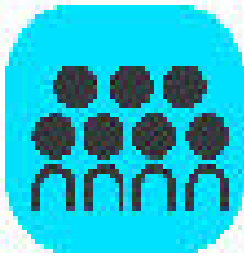
Take 1 tile away from your array of 20. How many tiles do you have left?
Is 19 an even number? Why not?

That means that 19 is odd. Let's underline the odd numbers as we take away 1 from each even number.

Take away another tile. How many tiles do you have now?

Take away a tile. How many tiles do you have now?

Concept Development



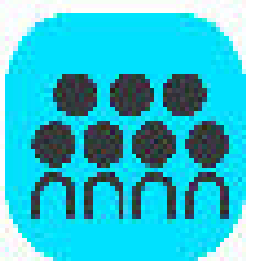
Continue taking away 1 tile from each number and underlining the odd numbers down to 1.

What happened when we had an even number of tiles and we took 1 away?

What will happen when we add 1 to an even number?

Test what we just noticed. Partner A, build an even number. Partner B, add one, and then take away one from the array of the even number. See if you get an odd number.

Concept Development



What happens when we add 1 to an even number?

What happens when we take 1 away from an even number?

Let's practice using what we know on some bigger numbers.

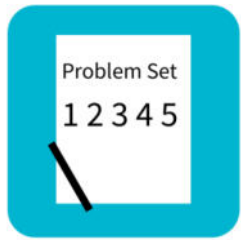
Is 40 even or odd?

Is 41 even or odd?



Application Problem

Eggs come in cartons of 12. Joanna's mom used 1 egg. Use pictures, numbers, or words to explain whether the amount left is even or odd.



Problem Set

A STORY OF UNITS

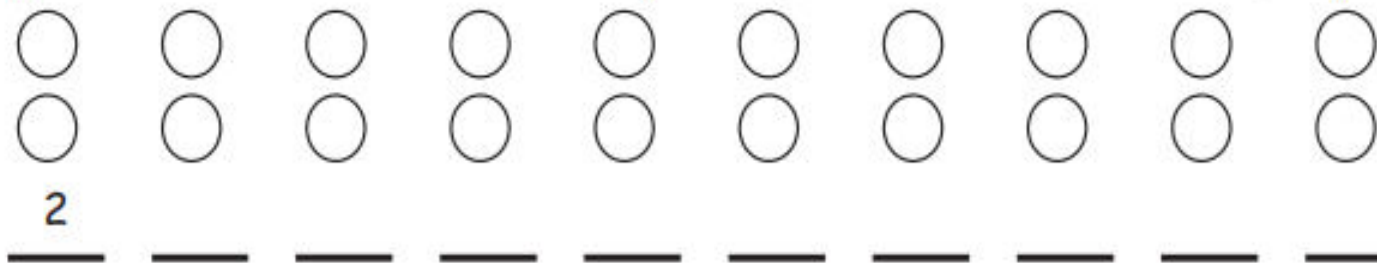
Lesson 19 Problem Set

2•6

Name _____

Date _____

1. Skip-count the columns in the array. The first one has been done for you.



2. a. Solve.

$$1 + 1 = \underline{\quad}$$

$$2 + 2 = \underline{\quad}$$

$$3 + 3 = \underline{\quad}$$

$$4 + 4 = \underline{\quad}$$

$$5 + 5 = \underline{\quad}$$



Debrief

Now that you've completed Problem 1, describe another array in terms of rows and columns in which you can skip-count by twos (i.e., 2 rows of ____ or ____ columns of 2).

In Problems 3(a) and 3(b), what do you notice about all the even numbers? All the odd numbers? Can you find a similarity between these two patterns?



Debrief

For Problem 4, what happens to an even number when you add or subtract 1? What number(s) do you need to add or subtract to make another even number?

In Problem 5(c), Sami argues that 45 is even because it starts with 4, and numbers that have 0, 2, 4, 6, or 8 are even. Is she correct? How do you know?



Exit Ticket

A STORY OF UNITS

Lesson 19 Exit Ticket

2•6

Name _____

Date _____

Are the **bold** numbers even or odd? Circle the answer, and explain how you know.

a. 18 even/odd	Explanation:
b. 23 even/odd	Explanation: