Eureka Math

2nd Grade Module 6 Lesson 17

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!

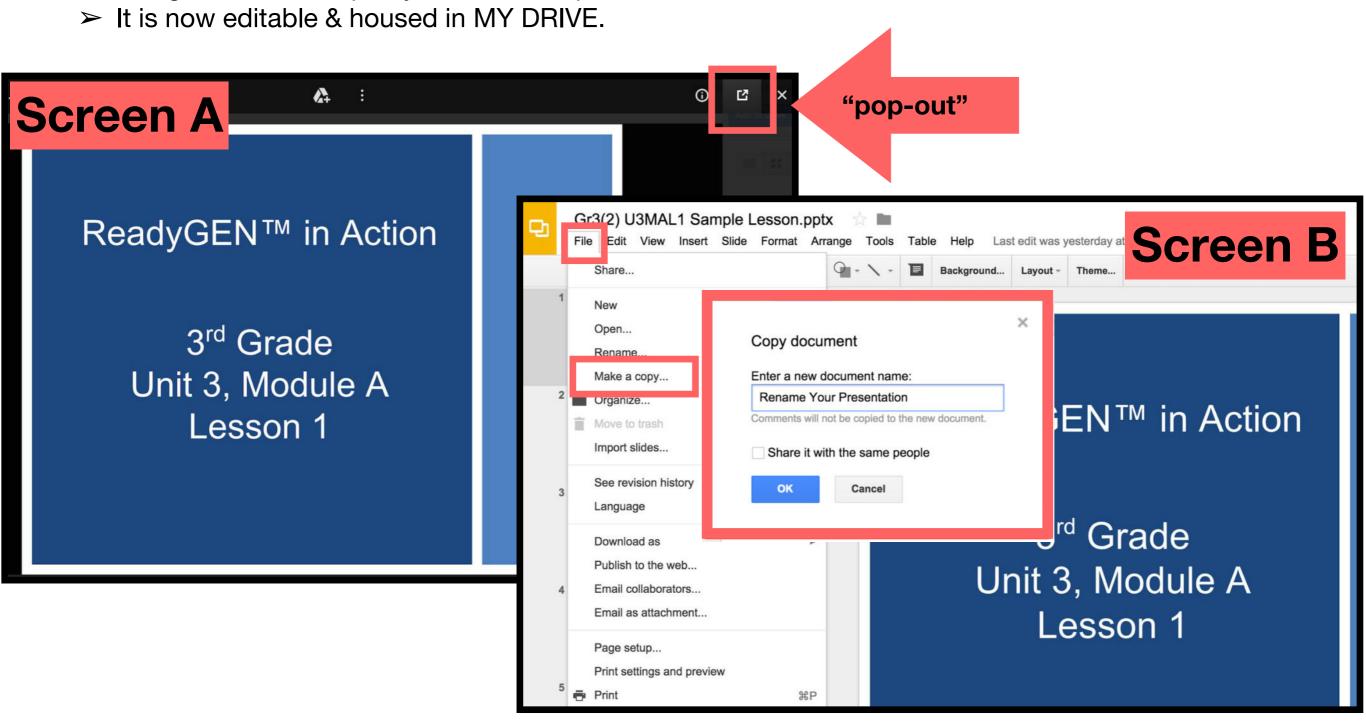
Directions for customizing presentations are available on the next slide.



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.



Icons



Read, Draw, Write



Learning Target



Personal White Board



Problem Set



Manipulatives Needed



Fluency



Think Pair Share



Whole Class



Individual



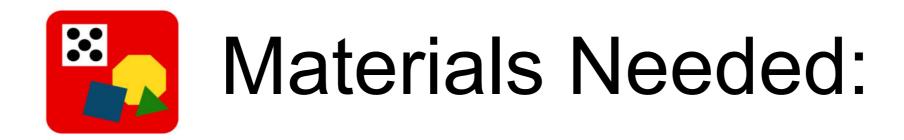
Partner



Small Group



Small Group Time



- White board
- Notebook
- 20 counters per pair

Lesson 17

Objective: Relate doubles to even numbers, and write number sentences to express the sums.

Suggested Lesson Structure

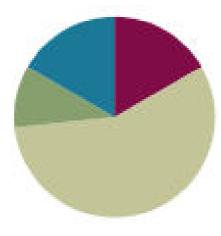
■ Fluency Practice	(10 minutes)
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Application Problem (6 minutes)

Concept Development (34 minutes)

Student Debrief (10 minutes)

Total Time (60 minutes)





I can use *doubles* to find even numbers and then write number sentences about the math facts I learned.

Subtraction Patterns

We are going to solve some subtraction problems, then use what we know to solve similar problems...

First, what is 11 - 9?

How can we use that fact to solve 21 - 9? 31 - 9? 41 - 9?

Keep following that pattern on your white board...

Continue with... 12 - 8, 11 - 8, and 13 - 9



Core Fluency Practice

Continue working on the core fluency skills.



Application Problem

Seven students sit on one side of a lunch table. Seven more students sit across from them on the other side of the table.

- a. Draw an array to show the students.
- b. Write an addition equation that matches the array. Three more students sit down on each side of the table.
- c. Draw an array to show how many students there are now.
- d. Write an addition equation that matches the new array.

Application Problem

Seven students sit on one side of a lunch table. Seven more students sit across from them on the other side of the table.

$$d.10 + 10 = 20$$



Put your hands on the table, and put up one finger on each hand...what is the math problem you are showing?

How about 2 fingers from each hand?

3 fingers?

4 fingers?

5 fingers?

What do we call it when both addends are the same?

DOUBLES





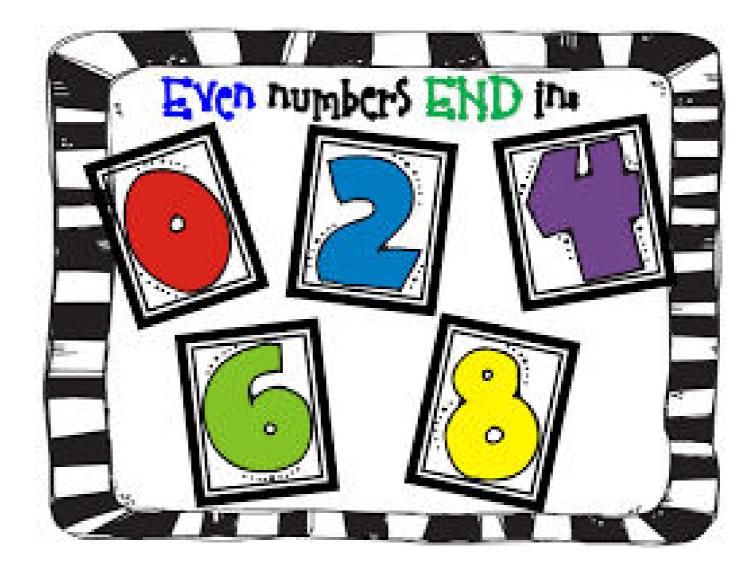
$$1 + 1 = 2$$

$$2 + 2 = 4$$

$$3 + 3 = 6$$

$$4 + 4 = 8$$

$$5 + 5 = 10$$



Can you see a pattern in the totals of our doubles facts?

All of these totals are even numbers. What can we say about even numbers?

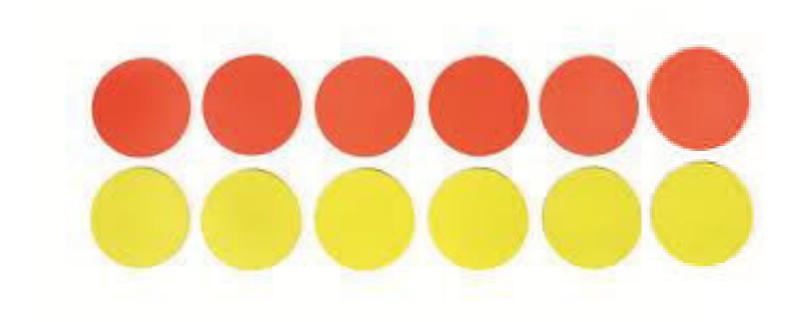


We're going to use counters to find out more about even numbers.

Partner 1, make a row of 6 counters.

Partner 2, do the same thing.

Describe your array with an addition equation.

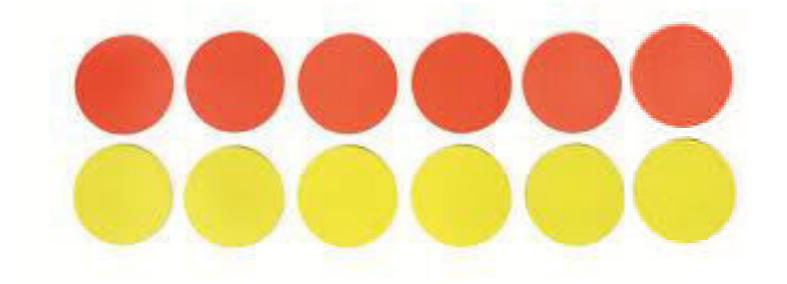




We can say this math fact in another way:

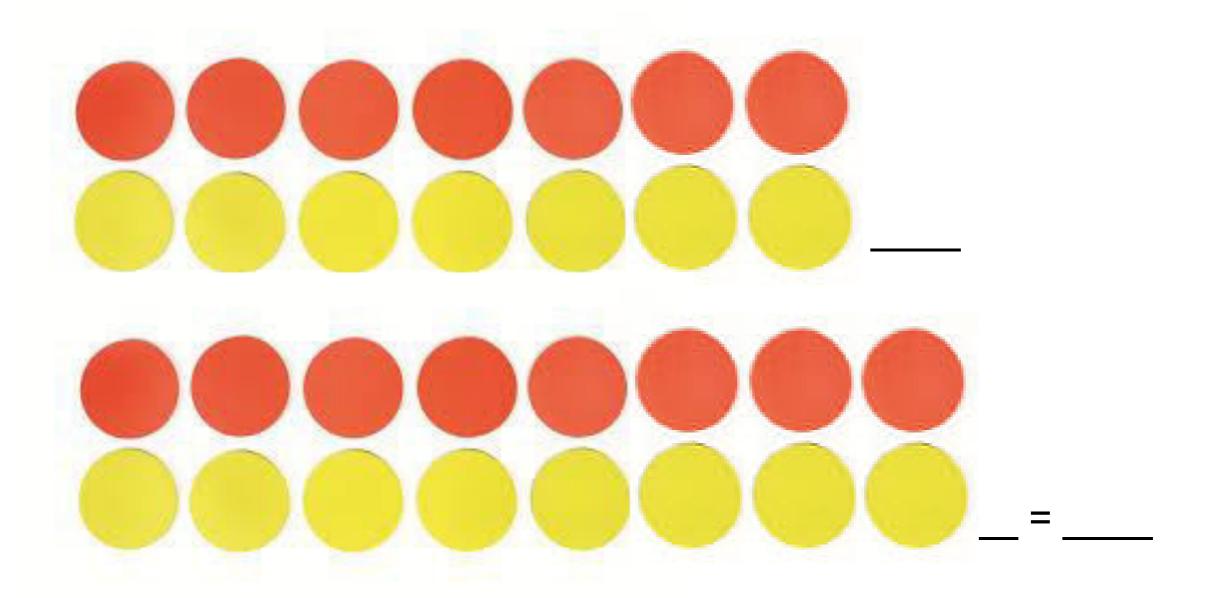
6 doubled is 12

is the same as 6 + 6 = 12





We're going to keep doing this. We'll add a counter to each row and make a new addition equation each time to see how many even numbers we can find using doubles facts.



Problem Set

A STORY OF UNITS

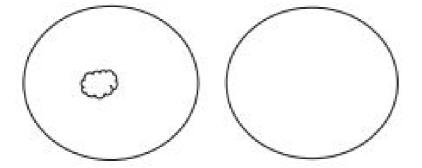
Lesson 17 Problem Set 2.6



Date

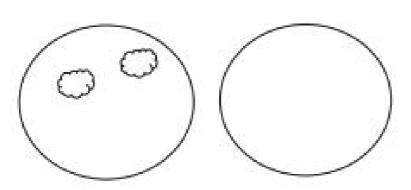
1. Draw to double the group you see. Complete the sentence, and write an addition equation.

a.



There is _____ cloud in each group.

b.



There are _____ clouds in each group.



Debrief

- In Problem 1, does doubling a number always result in an even number? Does it matter how many clouds are in each group?
- For Problem 1, if 4 + 4 is even, is 5 + 4 even?
 Why not? Fill in 5 + 4 + _____ is an even number.
- Can you look at an array in Problem 2 and immediately determine if there is an even number of objects? How?
- What patterns do you notice in Problem 3?
 What connections do you see between even numbers and skip-counting?
- What new math word did we use today? How would you define an even number?
- How did the Application Problem connect to today's lesson?

Exit Ticket

A STORY OF UNITS

Lesson 17 Exit Ticket 2.6

Name

Date _____

Draw an array for each set. Complete the sentences.

a. 2 rows of 5

2 rows of 5 = _____

Circle one: 5 doubled is even/not even.