

Eureka Math

2nd Grade Module 6 Lesson 12

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Directions for customizing presentations are available on the next slide.



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Screen A

ReadyGEN™ in Action

3rd Grade
Unit 3, Module A
Lesson 1

“pop-out”

Screen B

Gr3(2) U3MAL1 Sample Lesson.pptx

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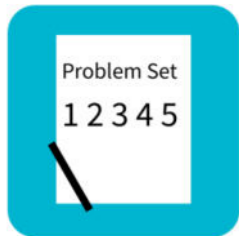
Read, Draw, Write



Learning Target



Personal White Board



Problem Set



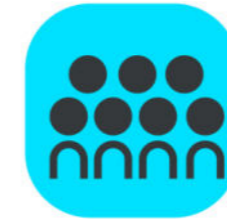
Manipulatives Needed



Fluency



Think Pair Share



Whole Class



Individual



Partner



Small Group



Small Group Time



Materials Needed:

- Core Fluency Sprints
- (T) 1 square tile & plain white paper
- (S) 6 square tiles & plain white paper

Lesson 12

Objective: Use math drawings to compose a rectangle with square tiles.

Suggested Lesson Structure

Fluency Practice	(10 minutes)
Concept Development	(24 minutes)
Application Problem	(16 minutes)
Student Debrief	(10 minutes)
Total Time	(60 minutes)





Use math drawings to compose a rectangle with square tiles.



Compensation Practice

Use mental math to make a 10, then add what remains.

$$42 + 19 = \underline{\hspace{2cm}}$$

What does 19 need to make the next 10?

Where can 19 get 1 more from?

$$42 + 19$$



41

1

Say the simplified equation: $42 + 19 = 41 + 20 = \underline{\hspace{2cm}}$

Solve the following problems using compensation:

$$42 + 19 = \underline{\hspace{2cm}}$$

$$37 + 19 = \underline{\hspace{2cm}}$$

$$52 +$$

$$19 = \underline{\hspace{2cm}}$$

$$66 + 66$$

$$64 + 18$$

$$64 +$$



Sprint

A STORY OF UNITS

Lesson 1 Core Fluency Practice Set A

2•6

A STORY OF UNITS

Lesson 1 Core Fluency Practice Set B

2•6

A STORY OF UNITS

Lesson 1 Core Fluency Practice Set C

2•6

A STORY OF UNITS

Lesson 1 Core Fluency Practice Set D

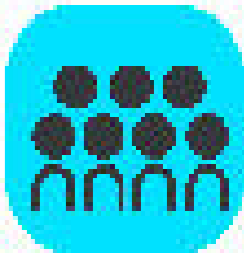
2•6

Name _____

Date _____

1.	$19 - 9 =$	21.	$16 - 7 =$
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Concept Development



Part 1- Trace a unit square to draw an array.

Make an array with 2 rows of 3 using your tiles.

We can draw the same array by tracing one square tile.

Put the tile in the top left corner of the paper. ----->



Use the edge of your paper to keep the tile straight.

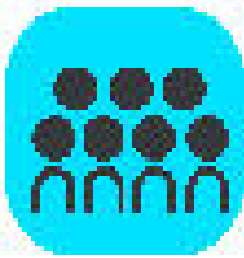
Trace the first tile. ----->



What should we do next to create 2 rows of 3?



Concept Development



Let's add another row by tracing the tile below the first one. Do we need to trace the whole square



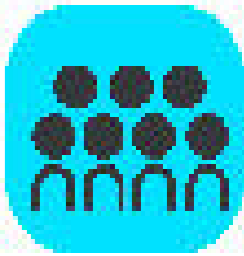
How many more squares do we need to complete this array?



This process reminds me of when we created rulers. How is creating the arrays this way similar to creating rulers?

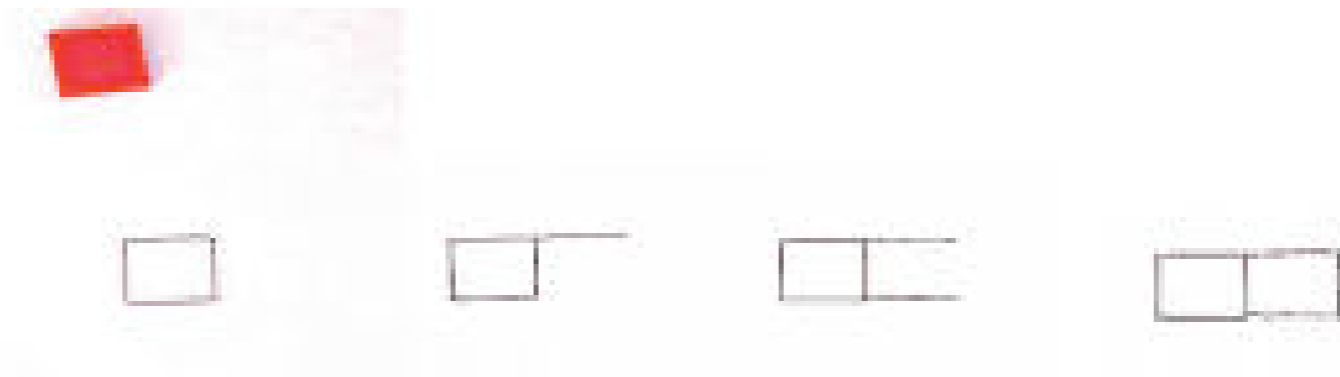
Students repeat this process to draw an array that has 2 rows with 4 in a row

Concept Development



Part 2- Draw an array without using a tile

Now, we'll draw an array mostly without the tile. To start, trace a tile in the middle of your paper



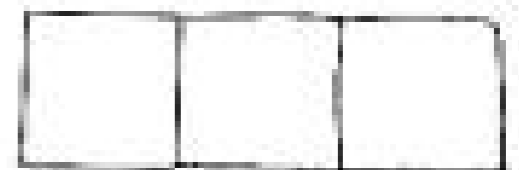
Start at the top side of the next square. Try to make it the same length as the original tile.

Next, draw the bottom bottom line the same length as the top line.

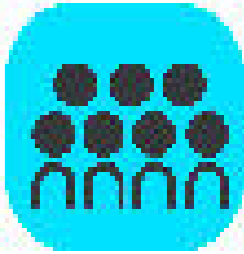
Finally, close the square by drawing a third vertical line.

How many more squares do we need to draw to make 1 row of 3?

Add a square to your array to make 1 row of 3.

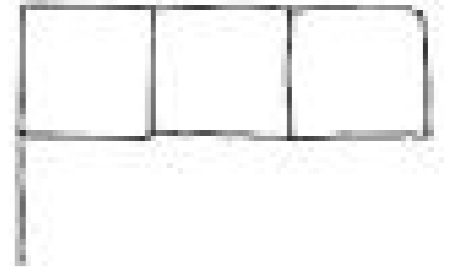


Concept Development



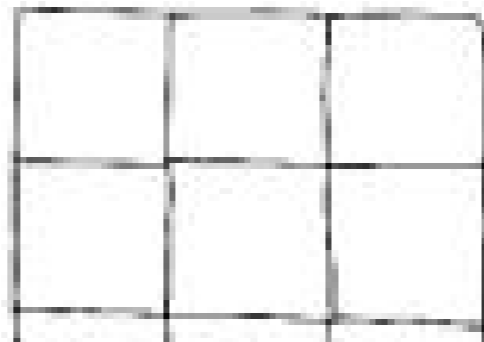
Let's add another row to our array.

Draw a vertical line down the same height of the tile.



Next, draw 3 more vertical lines the same length.

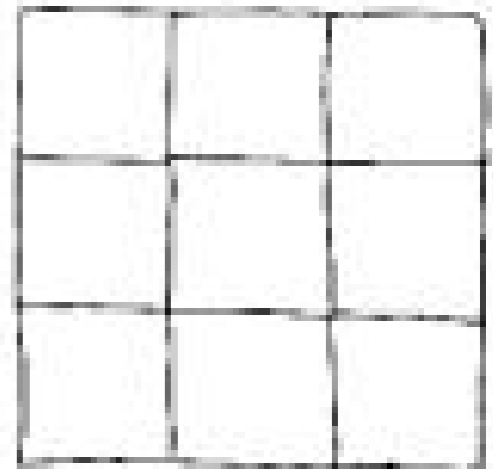
Finally, close the rectangle by drawing a third horizontal line.



How many more rows do we need to draw to make 3 rows of 3?

Finish your array to show 3 rows of 3.

What shape did you end up drawing?

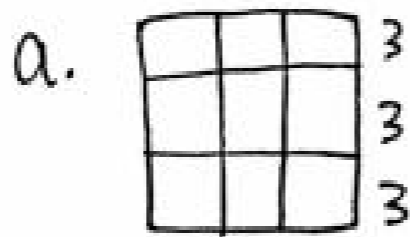




Application Problem

Lulu made a pan of brownies. She cut them into 3 rows and 3 columns.

- Draw a picture of Lulu's brownie in the pan.
- Write a repeated addition equation to show how many brownies are in the pan.
- Write a statement to show how many brownies Lulu has.



b. $3 + 3 + 3 = 9$

c. Lulu has 9 brownies.

Name _____ Date _____

1. Draw without using a square tile to make an array with 2 rows of 5.

2 rows of 5 = _____

_____ + _____ = _____



Debrief

For problem 3a and 3b, what was your first step in drawing a rectangle?

Explain to your partner how to draw a rectangle with one square tile. Why was precision important today? How is this different from drawing an array with X's.

For problems 1 and 2, discuss with your partner how the repeated addition equation related to the number of units in each rectangle.



Debrief

What was challenging about drawing a rectangle without tracing the square tile in problem 3? What did you need to be sure to do?

How does your drawing a rectangle support the idea of composing a larger unit from smaller units? Use the terms *square*, *rows*, and *columns* in your response.



Exit Ticket

A STORY OF UNITS

Lesson 12 Exit Ticket

2•6

Name _____

Date _____

Draw an array of 3 columns of 3 starting with the square below without gaps or overlaps.

