



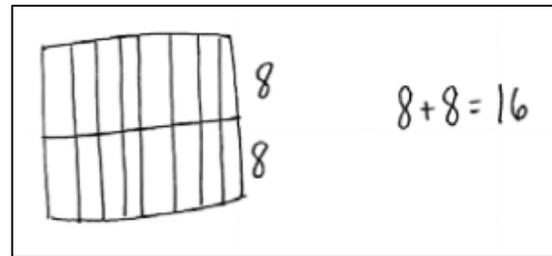
DISTRICT OF COLUMBIA
PUBLIC SCHOOLS

A Story of Units...

Seeds of Multiplication and Division

In this quarter, the second grade math classes take a big step with the foundations for understanding of multiplication and division. This foundation is set by repeated addition and partitioning of rectangles that will represent

multiplication and division. In this image, the demonstrated repeated addition is a prerequisite to the understanding of multiplication.



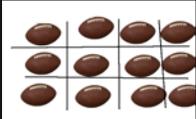
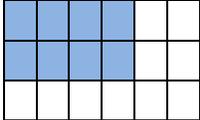
In Module 5 we will:

- Add and subtract **within 1000** with tools such as place value, properties of operations, and the connection between addition and subtraction
- Mentally add or subtract 10 or 100 using our understanding of **place value**
- Explain **the ideas of** why addition and subtraction strategies work

In Module 6 we will:

- **Determine** if a number is odd or even by grouping the objects into smaller groups of 2
- Use **repeated addition** to find the total number of objects arranged in rectangular arrays
- **Partition** rectangles into rows and columns (of the same size) and count to find the total number of units

Enrichment Activities

In school, your child will...	At home, your child can...
<p>Practice creating and interacting with arrays that reflect repeated addition as an introduction to multiplication.</p>  <p>3 rows of 4 footballs</p> <p>Use small cubes and blank paper to draw grid paper, while discussing arrays and repeated addition in a new form.</p>  <p>2 rows of 4</p>	<p>Organize objects into arrays and find arrays in everyday life- such as muffin tin, carton of eggs, window pattern on a large building, etc.</p>  <p>Practice repeated addition in several tasks. For example, count the number of pairs of shoes by repeated addition.</p> 

Focus Standards for Mathematical Practice

- Use reasoning to construct arguments and think about the reasoning of others
- Model decompositions by drawing and writing (such as 3 can be broken into 1 and 2)
- Use precision and focus when solving a problem
- Look for and make use of structure
- Look for and express regularity in repeated reasoning

Fluency Focus

In the fluency practice, students will do “sprints,” a fast-paced practice celebrating improvement and personal growth, to develop fluency in addition and subtraction. As repeated addition is used to introduce multiplication, addition fluency will become crucial.