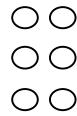


Grade 2 Mathematics Unit Preview

Quarter 4: Number Relationships and Computation (Multiplication and Division)

Objectives: (Your student will be able to)

- **Identify multiplication as repeated addition.** For example, $3 \times 2 = 6$ can be shown as $2 + 2 + 2 = 6$.
- **Identify and make an array to represent a multiplication sentence.** For example, fig a is an array of 3×2 .
- **Exploring the operation of division: the grouping process (determining how many groups) and the sharing process (determining how many in each group).** For example:
 - With the grouping process: 12 oranges are to be given away, 2 oranges to each child. How many children will get oranges? You give 2 oranges to each child until no more.
 - With the sharing process: 12 oranges, 3 children. How many oranges will each child get? Give 1 orange to each child until none are left.
- **Identify the relationship between multiplication and division.** For example, $3 \times 2 = 6$ and $6 \div 3 = 2$.

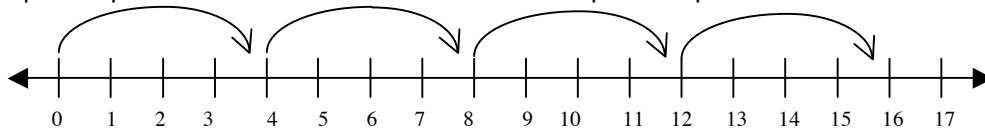


Vocabulary: (Words your student will need to understand)

• Multiplication: To join equal groups. $4 \times 2 = 8$	• Division: To separate into equal groups. $8 \div 4 = 2$
• Repeated addition: Adding the same number multiple times. Another way to show multiplication. $2 + 2 + 2 + 2 = 8$	• Repeated subtraction: Subtracting the same number multiple times. Another way to show division. $8 - 2 - 2 - 2 - 2 = 0$
• Array: An arrangement that shows objects in rows and columns.	

Activities to do with your student (in addition to homework, optional):

- Look for items that are in repeated sets or groups – panes in a window, pickets on a fence, sodas in a six-pack, wheels on cars or bicycles.
- Talk about the total number of objects in the group.
- Make jumps of equal size on a number line to show a multiplication problem: $4 \times 4 = 16$.



- Make equal groups with counters (beans, pennies, small toys) and write a multiplication sentence.
- Make a physical array with counters and record on paper using symbols.
- Skip count by 5's when counting nickels or minutes around a clock. Write the related multiplication sentence. For example, 4 nickels is 20¢ and $4 \times 5 = 20$.
- Divide a larger group of counters (more than 15) into groups of equal size. Write a division sentence for the counters.
- Share snack items (grapes, crackers, cherries) into equal groups.
- Practice addition and subtraction facts.

