Name_____

Chapter 1 Understand Multiplication and Division

Dear Family,

In this chapter, your student is learning about multiplication and division.

Some vocabulary words associated with this chapter are: equal groups, factors, multiplication, division, array, product, and equation.

You can model multiplication and division in your kitchen.

Have your student help in preparing a meal for a group of people.

- To model multiplication, show a set of silverware with a fork, a spoon, and a knife. Ask your student, "How many objects are in the group? How many are there in all when 4 people each have one group of silverware?"
- Model other scenarios for place settings. You can use the number of guests at a dinner party for the number of "groups" of objects.
- To model division, show your student a number of objects, such as a bag of apples. Then tell your student that you need a specific number of equal groups. Be sure that the number of groups is a factor of the number of objects. Ask, "How many apples are there in each group if the apples are shared equally by 3 people?"
- Use numerous objects such as grapes to model division. Discuss dividing the total number of grapes into a certain number of bowls. You can also ask questions such as, "If you put 5 grapes in each bowl, how many bowls do you need?"
- You can model arrays with grapes. Form a rectangular arrangement of the groups in equal rows and equal columns. The arrays can be used to model multiplication, division, and the Commutative Property of Multiplication.

By the end of this chapter, your student should feel confident with the learning targets and success criteria on the next page. Encourage your student to think of other opportunities to use multiplication and division for situations in the kitchen.

Have a great time practicing multiplication and division!

Chapter 1 Understand Multiplication and Division (continued)

	Learning Target	Success Criteria
Chapter 1 Understand Multiplication and Division	Understand multiplication and division.	• I can use equal groups to multiply. • I can use equal groups to divide. • I can explain multiplication and division equations. • I can compare multiplication to division.
1.1 Use Equal Groups to Multiply	Use equal groups to multiply.	• I can identify equal groups. • I can write a repeated addition equation for equal groups. • I can write a multiplication equation for equal groups.
1.2 Use Number Lines to Multiply	Use a number line to multiply.	• I can explain the parts of a multiplication equation. • I can use a number line to skip count.
1.3 Use Arrays to Multiply	Use an array to multiply.	• I can identify the number of rows and columns in an array. • I can draw an array. • I can write a multiplication equation for an array.
1.4 Multiply in Any Order	Multiply factors in any order.	• I can use arrays to show the Commutative Property of Multiplication. • I can write two multiplication equations for an array. • I can use the Commutative Property of Multiplication.
1.5 Divide: Size of Equal Groups	Use division to find the size of equal groups.	• I can model equal groups. • I can identify the size of equal groups. • I can write a division equation.
1.6 Divide: Number of Equal Groups	Use division to find the number of equal groups.	• I can model equal groups. • I can identify the number of equal groups. • I can write a division equation.
1.7 Use Number Lines to Divide	Use a number line to divide.	• I can use a number line to skip count backward. • I can write repeated subtraction equations and a division equation.