

# Dimensions Math

## Grade 2 Letter Home #7

Chapter 7 Multiplication and Division of 2, 5, and 10

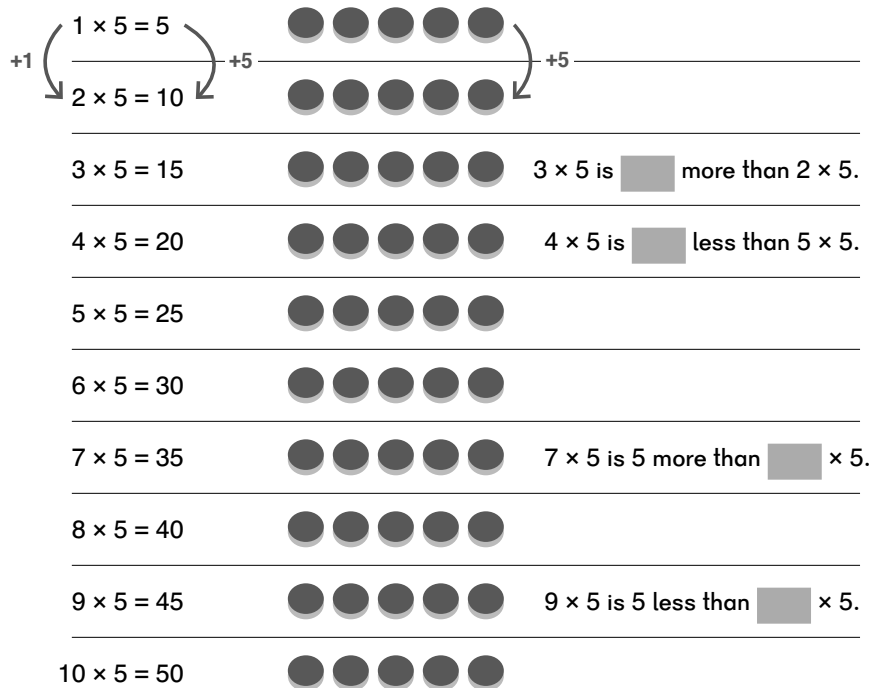
Dimensions Math  
Letters Home

### Home Connection

In this chapter, your child will learn the multiplication and division facts for 5, 2, and 10. These facts are considered the “foundation” facts that all later multiplication facts can be derived from.

Your child will begin with the  $\times 5$  table to understand that when we skip count, we multiply the number in each group, 5, by the number of groups.

$4 \times 5$  is one less group of 5 than  $5 \times 5$ .  
 $9 \times 5$  is one 5 less than  $10 \times 5$ .



The multiplication table for 5 is further developed through understanding the connection to division facts:

$$\begin{array}{ccccc} \boxed{\phantom{00}} & \times & 5 & = & 15 \\ \uparrow & & \uparrow & & \uparrow \\ \text{number} & & \text{number in} & & \text{total} \\ \text{of groups} & & \text{each group} & & \end{array}$$

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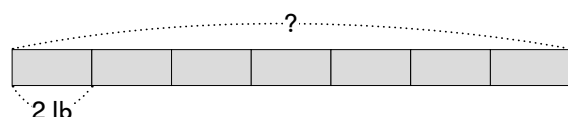
$$\begin{array}{ccccc} 15 & \div & 5 & = & \boxed{\phantom{00}} \\ \uparrow & & \uparrow & & \uparrow \\ \text{total} & & \text{number in} & & \text{number} \\ & & \text{each group} & & \text{of groups} \end{array}$$

To divide by 5, we can use the multiplication facts of 5.  
 $3 \times 5 = 15$ , so  $15 \div 5 = 3$ .

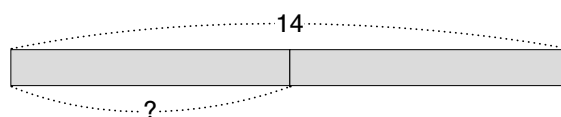
Your child will then learn their  $\times 2$  and  $\times 10$  tables in a similar manner.

Finally, your child will use bar models to help them visualize multiplication and division word problems:

A store owner put 2 lb of sour balls in each bag.  
How many pounds of sour balls are in 7 bags?



Mariam put 14 baseballs equally into 2 bags.  
How many baseballs are in each bag?



At the end of this chapter, students should practice all their facts for  $\times 2$ ,  $\times 5$ , and  $\times 10$ . Teachers may provide flash cards, or they can be downloaded from the Dimensions Math website. They will use these facts to help them with the multiplication tables of  $\times 3$  and  $\times 4$  in Dimensions Math 2B.

## What can we do at home?

Repetition is the key to mastering these facts. There are many online games or apps available that provide fun practice for children. Consider having your child practice these facts for five to ten minutes each evening.

Play games:

- **Match or Memory:** Using index cards, create a set of multiplication and division fact cards showing an expression only, which does not include the equal sign and answer. Then, make a matching set of cards with the products only. For example, you might make cards that read, " $2 \times 5$ ," " $7 \times 5$ ," and " $30 \div 5$ ," and corresponding cards with "10," "35," and "6." Arrange the cards faceup for Match or facedown to play a game of Memory.

- **Go, Slow, I Don't Know:** Print out an image of a traffic light and have your child practice with fact cards. The facts that they know automatically (3–5 seconds) get placed on green. The facts that they know but need to think about longer are placed on yellow, and the facts that they don't know are placed on red. Keep practicing until all the facts are a “go!”

