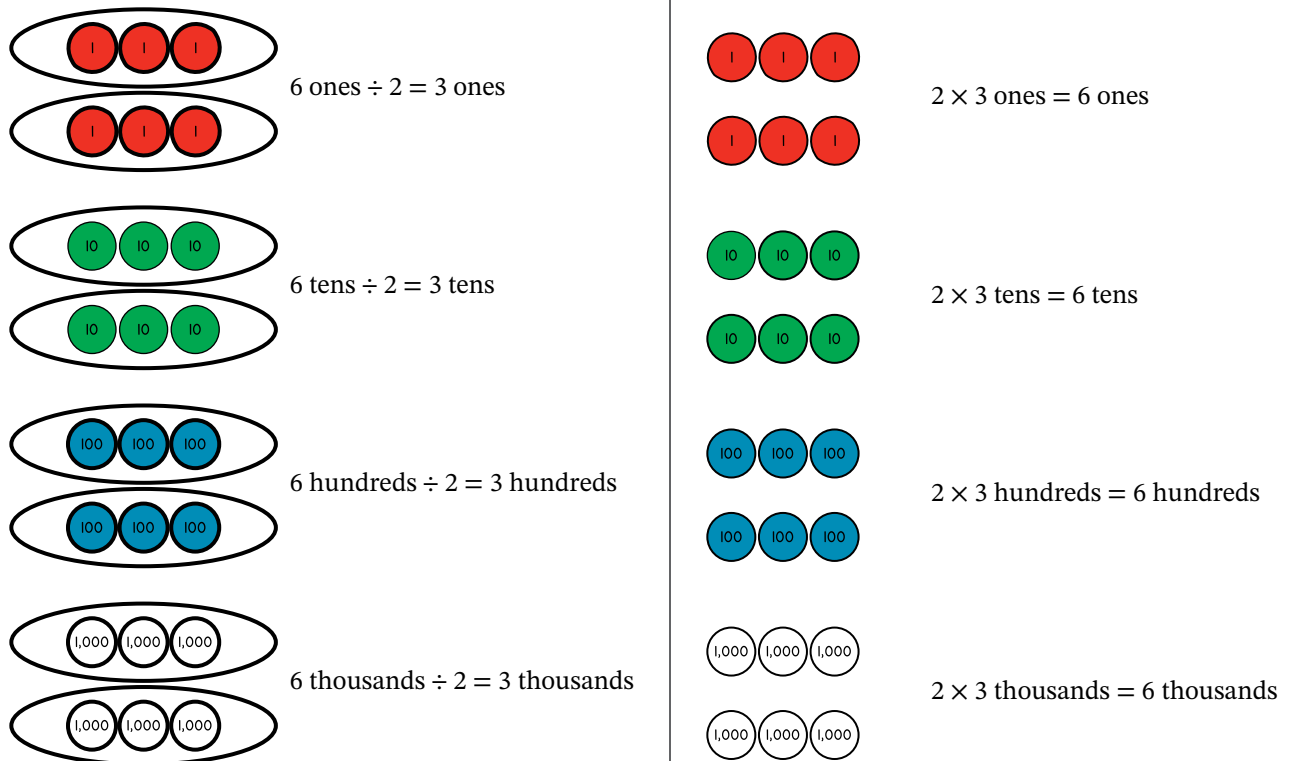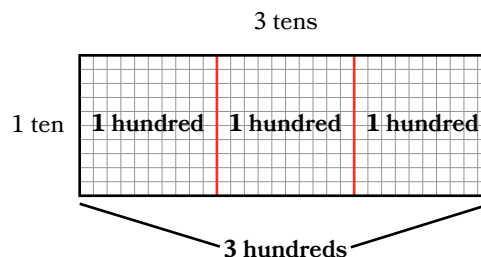# FAMILY MATH

Multiplication and Division of Multiples of Tens, Hundreds, and Thousands

Dear Family,

Earlier this year your student learned to multiply and divide multiples of 10 by one-digit numbers. Now your student is multiplying and dividing multiples of 10, 100, and 1000 by one-digit numbers. Students use place value disks and unit form to connect familiar multiplication and division facts to new problems. They use familiar area models to understand that multiplying 2 multiples of 10 produces a number that is a multiple of 100.

6 ones ÷ 2 = 3 ones

6 tens ÷ 2 = 3 tens

6 hundreds ÷ 2 = 3 hundreds

6 thousands ÷ 2 = 3 thousands

2×3 ones = 6 ones

2×3 tens = 6 tens

2×3 hundreds = 6 hundreds

2×3 thousands = 6 thousands

The units change, but the familiar fact remains the same.

3 tens

1 ten | **1 hundred** | **1 hundred** | **1 hundred**

3 hundreds

$10 \times 10 = 100$
1 ten $\times$ 1 ten = 1 hundred
1 ten $\times$ 2 tens = 2 hundreds
1 ten $\times$ 3 tens = 3 hundreds

multiple of 10 $\times$ multiple of 10 = multiple of 100

At-Home Activities

How Much Time Do You Spend...?

Help your student use multiplication to figure out how long they spend doing an activity over a period of time. Think of an activity that has a length of time that can be written as a multiple of 10 (20 minutes, 30 minutes, 40 minutes, etc.). Ask your student to multiply to figure out how long they spend doing the activity each week or month. For example, talk about the following situations.

- "Every night you read for 20 minutes. How many minutes do you spend reading each week?"

- "Every week you have soccer practice for 40 minutes. How many minutes do you spend at practice after 6 weeks?"

Thinking in Hundreds and Thousands

Look for opportunities around your home or during daily activities to help your student practice multiplying and dividing multiples of 100 or 1000 by a single-digit number. Consider using the following examples.

- "Our car has about 15,000 miles on it. We've had the car for about 5 years. If we drive the car about the same distance each year, about how many miles did we drive each year?"

- "This food has 300 calories per serving. There are 8 servings in the whole container. How many calories are in the whole container?"

- "There are about 2000 steps in a mile. About how many steps will I take if I walk 4 miles?"