

## 3

## Family Letter

**Dear Parent or Guardian:**

We often use decimals, especially when measuring distances and amounts. Knowing how to use decimals helps us solve everyday problems such as how many miles a jogger runs around a track or how much money is needed to maintain a budget.

In **Chapter 3, Applying Decimals**, your child will learn how to estimate with decimals, multiply decimals and by powers of 10, divide decimals, to choose the best method of computation, and about the metric system and scientific notation. In the study of this chapter, your child will complete a variety of daily classroom assignments and activities and possibly produce a chapter project.

By signing this letter and returning it with your child, you agree to encourage your child by getting involved. Enclosed is an activity you can do with your child that practices how the math we will be learning in Chapter 3 might be tested. You may also wish to log on to **www.msmath2.com** for self-check quizzes and other study help. If you have any questions or comments, feel free to contact me at school.

Sincerely,

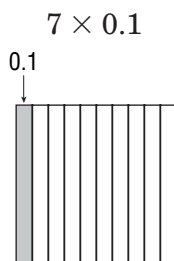
Signature of Parent or Guardian \_\_\_\_\_ Date \_\_\_\_\_

### 3 Family Activity

## State Test Practice

Fold the page along the dashed line. Work each problem on another piece of paper. Then unfold the page to check your work.

1. Use the model below to find the answer to the following multiplication problem:



Which choice tells how you could use the model to find the correct answer?

- A Divide the shaded column into seven equal pieces.
- B Shade 6 more columns to show a total of 0.7 shaded.
- C Draw 6 more grids like the one above, for a total of seven of them.
- D You cannot model the multiplication problem with this model.

*Fold here.*

#### Solution

1. *Hint: This problem is asking for the value of 7 groups of 0.1. By having a total of 7 columns of value 0.1 shaded, you find the answer to this multiplication problem.*
- A You do not want to divide, you want to multiply.
  - B You want to show 7 columns of 0.1 size shaded. This will do that. Therefore, this is the correct answer.
  - C While this will work, it is unnecessary, and the directions tell you to use the grid you have.
  - D As shown in Choice B, it can be modeled by this figure.

The answer is **B**.

2. Which of the choices shown below is the value of the following number in standard form?

$$1.567 \times 10^8$$

- A 1.56700000000
- B 0.00000567
- C 156,700,000,000
- D 156,700,000

#### Solution

2. *Hint: When converting a number from scientific notation to standard notation, the exponent tells you how far to move the decimal point. In this problem, we move the decimal point 8 places to the right because the exponent is positive 8.*

Annex zeros to determine where to place the decimal point.

$$1.567 \rightarrow 1.56700000000$$

Move the decimal point 8 places to the right.

The result is 156,700,000 which is choice D.

The answer is **D**.