Name

Reteaching 6-1

## **Multiplying Decimals by** 10, 100, or 1,000

You can use patterns to multiply decimals mentally by 10, 100, and 1,000.

Andrew starts selling his baseball cards for \$0.10 each. After selling 10 cards, he has made \$1.00. After selling 100 cards, he has made \$10.00.







\$.0.10

 $0.10 \times 10 = 1.00$ 



When you multiply by

10 (10 <sup>1</sup> )	Move decimal point by 1 place to the right
100 (10 <sup>2</sup> )	Move decimal point by 2 places to the right
1,000 (10 <sup>3</sup> )	Move decimal point by 3 places to the right
If Andrew sold 1,000 cards, how much money would he make?	

**Mental Math** For questions **1** through **4**, find the product using mental math.

**1.** 6.1 × 10 \_\_\_\_\_ **2.** 100 × 37.98

- **3.** 92.3 × 1,000 \_\_\_\_\_ **4.** 0.418 × 100 \_\_\_\_\_
- 5. Myla has an antique flower vase that she bought for \$15.75 many years ago. The vase's value is now 1,000 times as great. What is the value of the vase?
- 6. Raul can hit a golf ball 26.4 yards. A.J. can hit a golf ball 10 times as far. How far can A.J. hit the ball?
- 7. Is 0.018 a reasonable answer for  $1.8 \times 100$ ?