

# 4.9

## Dividing a Decimal by a Power of Ten

### • Example 1

Divide.

(a)  $27.3 \div 10 = 2.73$

Shift one place to the left.

(b)  $57.53 \div 100 = 0.5753$

Shift two places to the left.

(c)  $39.75 \div 1000 = 0.03975$

Shift three places to the left.

(d)  $85 \div 1000 = 0.085$

The decimal after the 85 is implied.

As you can see, we may have to add zeros to correctly place the decimal point.

### ● ● ● CHECK YOURSELF 1

Divide.

a.  $3.84 \div 10$

b.  $27.3 \div 1000$

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### ● ● ● CHECK YOURSELF ANSWER

1. (a) 0.384; (b) 0.0273.

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# 4.9 Exercises

Name \_\_\_\_\_

Section \_\_\_\_\_

Date \_\_\_\_\_

## A N S W E R S

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

Divide.

1.  $4.8 \div 10$

2.  $3.2 \div 10$

3.  $3.538 \div 100$

4.  $7.318 \div 100$

5.  $84.79 \div 1000$

6.  $6.41 \div 100$

7.  $9.6 \div 1000$

8.  $4.3 \div 1000$

9.  $2.67 \div 10$

10.  $657.9 \div 100$

11.  $5.23 \div 1000$

12.  $0.953 \div 10$