

# 4.5

## Multiplying a Decimal by a Power of Ten

### • Example 1

$$2.356 \times 10 = 23.56$$

Move the decimal one place to the right.

$$34.788 \times 100 = 3478.8$$

Move the decimal two places to the right.

$$3.67 \times 1000 = 3670. = 3670$$

Move the decimal three places to the right. Note that we added a 0 to place the decimal point correctly.

### • • • CHECK YOURSELF 1

Multiply.

$$43.875 \times 100$$

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### • • • CHECK YOURSELF ANSWER

1. 4387.5.

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# 4.5 Exercises

Name \_\_\_\_\_

Section \_\_\_\_\_

Date \_\_\_\_\_

## A N S W E R S

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_
16. \_\_\_\_\_

Multiply.

- |                         |                          |
|-------------------------|--------------------------|
| 1. $5.89 \times 10$     | 2. $0.895 \times 100$    |
| 3. $23.79 \times 100$   | 4. $2.41 \times 10$      |
| 5. $0.045 \times 10$    | 6. $5.8 \times 100$      |
| 7. $0.431 \times 100$   | 8. $0.025 \times 10$     |
| 9. $0.7125 \times 1000$ | 10. $23.42 \times 1000$  |
| 11. $4.82 \times 10$    | 12. $3.57 \times 100$    |
| 13. $0.785 \times 100$  | 14. $14.85 \times 100$   |
| 15. $45.71 \times 1000$ | 16. $0.0573 \times 1000$ |