- 1. Fill in the blanks using your knowledge of place value units and basic facts.
 - a. 43×30

Think: 43 ones × 3 tens = _____ tens

43 × 30 = _____

b. 430×30

Think: 43 tens × 3 tens = _____ hundreds

430 × 30 = _____

c. 830 × 20

Think: 83 tens × 2 tens = 166 _____

830 × 20 =

d. $4,400 \times 400$

_____ hundreds × _____ hundreds = 176 _____

4,400 × 400 = _____

e. $80 \times 5,000$

_____ tens × _____ thousands = 40 _____

80 × 5,000 = _____

- 2. Determine if these equations are true or false. Defend your answer using your knowledge of place value and the commutative, associative, and/or distributive properties.
 - a. $35 \text{ hundreds} = 5 \text{ tens} \times 7 \text{ tens}$

b. $770 \times 6 = 77 \times 6 \times 100$

- c. $50 \text{ tens} \times 4 \text{ hundreds} = 40 \text{ tens} \times 5 \text{ hundreds}$
- d. $24 \times 10 \times 90 = 90 \times 2,400$

3. Find the products. Show your thinking. The first row gives some ideas for showing your thinking.

a.
$$5 \times 5$$
 5×50 50×50 50×500 $= 25 \times 10$ $= (5 \times 10) \times (5 \times 10)$ $= (5 \times 5) \times (10 \times 100)$ $= 250$ $= (5 \times 5) \times 100$ $= 25,000$ $= 2,500$

c.
$$637 \times 3$$
 $6,370 \times 30$ $6,370 \times 300$ $63,700 \times 300$

4. A concrete stepping-stone measures 20 square inches. What is the area of 30 such stones?

5. A number is 42,300 when multiplied by 10. Find the product of this number and 500.

Answer Key

- 1. a. 129; 1,290
 - b. 129; 12,900
 - c. Hundreds; 16,600
 - d. 44; 4; ten thousands; 1,760,000
 - e. 8; 5; ten thousands; 400,000
- 2. a. True; answers will vary.
 - b. False; answers will vary.
 - c. True; answers will vary.
 - d. False; answers will vary.

- 3. a. Answers provided
 - b. 400; 4,000; 400,000; 400,000
 - c. 1,911; 191,100; 1,911,000; 19,110,000
- 4. 600 in²
- 5. 2,115,000