Name Date

1. Fill in the blanks using your knowledge of place value units and basic facts.
2. 43 × 30

Think: 43 ones × 3 tens = \_\_\_\_\_\_\_\_\_\_ tens

43 × 30 = \_\_\_\_\_\_\_\_\_\_

1. 430 × 30

Think: 43 tens × 3 tens = \_\_\_\_\_\_\_\_\_\_ hundreds

430 × 30 = \_\_\_\_\_\_\_\_\_\_

1. 830 × 20

Think: 83 tens × 2 tens = 166 \_\_\_\_\_\_\_\_\_\_

830 × 20 = \_\_\_\_\_\_\_\_\_\_

1. 4,400 × 400

\_\_\_\_\_\_\_\_\_\_ hundreds × \_\_\_\_\_\_\_\_\_\_ hundreds = 176 \_\_\_\_\_\_\_\_\_\_

4,400 × 400 = \_\_\_\_\_\_\_\_\_\_

1. 80 × 5,000

\_\_\_\_\_\_\_\_\_\_ tens × \_\_\_\_\_\_\_\_\_\_ thousands = 40 \_\_\_\_\_\_\_\_\_\_

80 × 5,000 = \_\_\_\_\_\_\_\_\_\_

1. 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.
2. 35 hundreds = 5 tens × 7 tens
3. 770 × 6 = 77 × 6 × 100
4. 50 tens × 4 hundreds = 40 tens × 5 hundreds
5. 24 × 10 × 90 = 90 × 2,400
6. Find the products. Show your thinking. The first row gives some ideas for showing your thinking.
7. 5 × 5 5 × 50 50 × 50 50 × 500

= 25 = 25 × 10 = (5 × 10) × (5 × 10) = (5 × 5) × (10 × 100)

 = 250 = (5 × 5) × 100 = 25,000

 = 2,500

1. 80 × 5 80 × 50 800 × 500 8,000 × 50
2. 637 × 3 6,370 × 30 6,370 × 300 63,700 × 300
3. A concrete stepping-stone measures 20 square inches. What is the area of 30 such stones?
4. A number is 42,300 when multiplied by 10. Find the product of this number and 500.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| $\frac{1}{1,000} $ [[1]](#footnote-2)  | Thousandths |  |  |  |  |  |
| $\frac{1}{100}$  | Hundredths |  |  |  |  |  |
| $\frac{1}{10}$  | Tenths |  |  |  |  |  |
|  |  |  |  |  |  |  |
| 1 | Ones |  |  |  |  |  |
| 10 | Tens |  |  |  |  |  |
| 100 | Hundreds |  |  |  |  |  |
| 1,000 | Thousands |  |  |  |  |  |
| 10,000 | Ten Thousands |  |  |  |  |  |
| 100,000 | Hundred Thousands |  |  |  |  |  |
| 1,000,000 | Millions |  |  |  |  |  |

1. millions to thousandths place value chart [↑](#footnote-ref-2)