MATH

Multiplying by 10 and 100

Name _____ Date _____

I can multiply by 10, 100 and multiples of 10.

1 How it works

Use the basic fact, then count the zeros. 4 × 3 = 12, so 4 × 30 = 120 and 4 × 300 = 1,200. Each zero moves the digits one place to the left.

4 × 3 = 12
4 × 30 = 120
4 × 300 = 1,200
4 × 3,000 = 12,000

2 Use the basic fact. Count the zeros.

7 × 200 = ☐

9 × 50 = ☐

8 × 500 = ☐

7 × 500 = ☐

4 × 30 = ☐

6 × 80 = ☐

9 × 60 = ☐

3 × 90 = ☐

How did I do? ☆ ☆ ☆

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Multiply in columns

Name _____ Date _____

I can multiply using the standard method.

1 **Multiply. Carry when you need to.** Start with the ones.

7 × 200	9 × 50	8 × 500	7 × 500
4 × 30	6 × 80	9 × 60	3 × 90
8 × 300	5 × 200	6 × 50	9 × 300

How did I do? ☆ ☆ ☆

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Patterns with zeros

Name _____ Date _____

I can use patterns to multiply by 10, 100 and 1,000.

1 Complete each pattern

3 × 1 = ☐	3 × 10 = ☐	3 × 100 = ☐	3 × 1,000 = ☐
5 × 1 = ☐	5 × 10 = ☐	5 × 100 = ☐	5 × 1,000 = ☐
7 × 1 = ☐	7 × 10 = ☐	7 × 100 = ☐	7 × 1,000 = ☐
8 × 1 = ☐	8 × 10 = ☐	8 × 100 = ☐	8 × 1,000 = ☐
6 × 1 = ☐	6 × 10 = ☐	6 × 100 = ☐	6 × 1,000 = ☐
9 × 1 = ☐	9 × 10 = ☐	9 × 100 = ☐	9 × 1,000 = ☐

How did I do? ☆ ☆ ☆

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Word problems

Name _____ Date _____

I can use multiplication to solve problems.

1 Read, think, answer

Estimate first, then solve.

1 A box holds 50 crayons. How many crayons are in 10 boxes?

Answer: _____

2 Zara earns 3 stickers a day. How many stickers in 100 days?

Answer: _____

3 A bus drives 40 miles each day. How far does it go in 5 days?

Answer: _____

4 A farm sells apples in bags of 30. How many apples are in 3 bags?

Answer: _____

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: multiplying by 10 and 100

1 Page 1

Basic facts: 7 × 200 = 1,400, 9 × 50 = 450, 8 × 500 = 4,000, 7 × 500 = 3,500, 4 × 30 = 120, 6 × 80 = 480, 9 × 60 = 540, 3 × 90 = 270.

2 Page 2

Columns: 7 × 200 = 1,400, 9 × 50 = 450, 8 × 500 = 4,000, 7 × 500 = 3,500, 4 × 30 = 120, 6 × 80 = 480, 9 × 60 = 540, 3 × 90 = 270, 8 × 300 = 2,400, 5 × 200 = 1,000, 6 × 50 = 300, 9 × 300 = 2,700.

3 Page 3

Patterns: 3, 30, 300, 3,000; 5, 50, 500, 5,000; 7, 70, 700, 7,000; 8, 80, 800, 8,000; 6, 60, 600, 6,000; 9, 90, 900, 9,000.

4 Page 4: word problems

1) 500
2) 300
3) 200 miles
4) 90

5 Teaching tip

Show it with place value: 4 groups of 3 tens is 12 tens, which is 120. Children then see why the zero appears, rather than just adding one.

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