

# Multiplying by Powers of Ten

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Instructions:** Solve each multiplication problem. Look for patterns in how the digits move when multiplying by 10, 100, and 1000.

## Section A: Whole Numbers

1.  $47 \times 10 =$  \_\_\_\_\_

2.  $23 \times 100 =$  \_\_\_\_\_

3.  $8 \times 1000 =$  \_\_\_\_\_

4.  $156 \times 10 =$  \_\_\_\_\_

5.  $64 \times 100 =$  \_\_\_\_\_

6.  $35 \times 1000 =$  \_\_\_\_\_

7.  $209 \times 10 =$  \_\_\_\_\_

8.  $7 \times 100 =$  \_\_\_\_\_

9.  $412 \times 100 =$  \_\_\_\_\_

10.  $58 \times 1000 =$  \_\_\_\_\_

## Section B: Decimals

11.  $3.5 \times 10 =$  \_\_\_\_\_

12.  $0.8 \times 100 =$  \_\_\_\_\_

13.  $2.47 \times 10 =$  \_\_\_\_\_

14.  $1.6 \times 1000 =$  \_\_\_\_\_

15.  $0.25 \times 100 =$  \_\_\_\_\_

16.  $4.8 \times 10 =$  \_\_\_\_\_

17.  $0.06 \times 1000 =$  \_\_\_\_\_

18.  $7.34 \times 100 =$  \_\_\_\_\_

19.  $0.125 \times 10 =$  \_\_\_\_\_

20.  $3.9 \times 1000 =$  \_\_\_\_\_

## Section C: Mixed Practice

21.  $0.75 \times 100 =$  \_\_\_\_\_

22.  $145 \times 10 =$  \_\_\_\_\_

23.  $0.9 \times 1000 =$  \_\_\_\_\_

24.  $28 \times 100 =$  \_\_\_\_\_

25.  $5.62 \times 10 =$  \_\_\_\_\_

26.  $0.004 \times 1000 =$  \_\_\_\_\_

## Challenge Questions

27. What happens to the decimal point when you multiply by 10?

\_\_\_\_\_

\_\_\_\_\_

28. If  $6.3 \times 100 = 630$ , what is  $6.3 \times 1000$ ? \_\_\_\_\_