

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 6.3×1000 ? _____