

Name _____

Place Patterns Answer Key

Decimal $\times 10$ $\times 100$ $\times 1,000$

1.4 14 140 1,400

0.36 3.6 36 360

5.08 50.8 508 5,080

2.75 27.5 275 2,750

0.904 9.04 90.4 904

8.019 80.19 801.9 8,019

1. 45.6

6. 89

2. 456

7. 1, left

3. 4,560

8. 2, left

4. 0.89

9. 3, left

5. 8.9

10. 270

Teacher's Guide

- Review that multiplying by powers of ten changes place value. The digits stay the same while their positions change.
- Encourage students to estimate before solving to confirm that each product is larger than the original number.
- Provide place value charts for students who benefit from visual support.
- Have students explain the pattern in their own words after completing the table.
- Pair students to compare answers and discuss any differences in decimal placement.
- Extend learning by asking students to create their own decimal and complete a similar table for $\times 10$, $\times 100$, and $\times 1,000$.
- Reinforce the idea that the decimal point does not move. The digits shift to new place values.