



Name _____

Place Value Mastery

Directions: Complete each problem. Show your understanding of decimal place value in different ways.

1. Write 46.308 in expanded form.

2. Write the standard form.

$$20 + 8 + 0.5 + 0.03 = \underline{\hspace{2cm}}$$

3. Complete the place value chart for 7.254.

Ones: _____ | **Tenths:** _____ | **Hundredths:** _____ | **Thousandths:** _____

4. Write 15.406 in word form.

5. Draw a quick model for 2.36 using hundred grids or base-ten blocks.
Then write its expanded form.

6. Fill in the missing value.

$$30 + 6 + \underline{\hspace{1cm}} + 0.004 = 36.504$$

7. Find the mistake.

Number: 9.18 / Incorrect expanded form: $9 + 0.1 + 0.8$

What is the mistake? _____

Correct expanded form: _____

8. Write the expanded form for the decimal 81.09.

9. Write the standard form.

$$50 + 4 + 0.2 + 0.007 = \underline{\hspace{2cm}}$$

10. A bottle holds 1.275 liters of water.

a. Write the decimal in expanded form.

b. What is the value of the digit 7?