# Understanding Place Value

Understanding Place Value: Find, Fix, and Work Backward

**Name** _____ **Date** _____ **Score** _____ / 8

**QUICK REVIEW**

Each place is ten times the place to its right. In $6.482$, the $4$ is $4$ tenths ($0.4$), the $8$ is $8$ hundredths ($0.08$), and the $2$ is $2$ thousandths ($0.002$). A zero holds an empty place.

**Worked example**

What is the value of $7$ in $3.075$?

**1.** The digits after the point are $0$ tenths, $7$ hundredths, and $5$ thousandths.
**2.** Seven hundredths is $7 \times 0.01 = 0.07$.
**3.** Check: $3 + 0.07 + 0.005 = 3.075$.
**Answer:** $0.07$.

## Practice Problems

Show your thinking.

**1.** Fix the missing zero: $6$ ones and $9$ thousandths is $6.09$.

**2.** In $0.\square 52$, the missing digit has value $0.7$. Find it.

**3.** A $2$ is worth $0.02$. Move it one place left and leave other places zero. What is its new value?

**4.** Find the number: $2$ ones, $15$ tenths, and $6$ thousandths.

**5.** Is the value of $8$ in $4.008$ one hundredth of its value in $4.8$? Show the values.

**6.** Complete: $0.63 =$ ☐ hundredths $=$ ☐ thousandths.

**7.** A student says $9.404$ has two digits with equal value because both are $4$. Correct this.

**8.** Use $2, 0, 5, 7$ once each to make a decimal with $2$ ones and $7$ hundredths. Give both possible decimals.

# Answer Key

1. $6.009$.
2. $7$.
3. $0.2$.
4. $3.506$.
5. Yes.
6. $63$; $630$.
7. The values are $0.4$ and $0.004$, not equal.
8. $2.075$ and $2.570$.

## Step-by-Step Solutions

Follow each calculation, then check your own work.

### Problem 1

1. Nine thousandths is $0.009$, not $0.09$.
2. $6 + 0.009 = 6.009$; both tenths and hundredths need zeros.

### Problem 2

1. The box is in tenths, with unit value $0.1$.
2. $0.7 \div 0.1 = 7$; the completed decimal is $0.752$.

### Problem 3

1. One place left multiplies the value by $10$.
2. $0.02 \times 10 = 0.2$; it now represents two tenths.

### Problem 4

1. $15 \times 0.1 = 1.5$.
2. $2 + 1.5 + 0.006 = 3.506$; ten tenths were regrouped as one whole.

### Problem 5

1. The values are $0.008$ and $0.8$.
2. $0.8 \div 100 = 0.008$, so the claim is true.

### Problem 6

1. $0.63 \div 0.01 = 63$.
2. $0.63 \div 0.001 = 630$; $63 \times 10 = 630$.

### Problem 7

1. The first $4$ is tenths; the second is thousandths.
2. $0.4 \div 0.004 = 100$; the first value is $100$ times as great.

### Problem 8

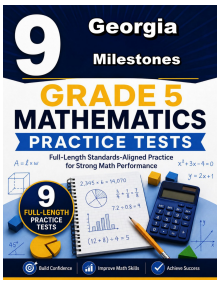
1. Fix $2$ before the point and $7$ in the second decimal place.
2. The remaining $0$ and $5$ may switch:
$2 + 0 + 0.07 + 0.005 = 2.075$ or $2 + 0.5 + 0.07 + 0 = 2.570$.

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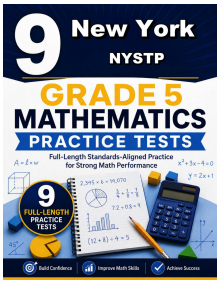

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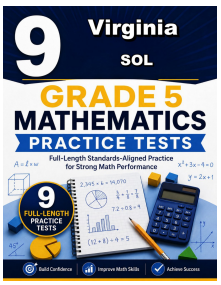

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