# Understanding Place Value

Grade 5 Math • Section 1.1

| Name: _____ | Date: _____ | Score: _____ / 14 |
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## Quick Review and Helpful Hints

**Place-value pattern:** In a multi-digit number, a digit in one place represents $10\times$ what it represents in the place to its right and $\frac{1}{10}$ of what it represents in the place to its left.

**Place-value chart (decimal places):** ones $\rightarrow$ tenths $\rightarrow$ hundredths $\rightarrow$ thousandths.

The value of a digit depends on its **position**, not just the digit itself.

**Example:** In the number $55{,}500$, what is the relationship between the values of the digit $5$ in the thousands place and the $5$ in the hundreds place?

The $5$ in the thousands place has a value of $5{,}000$. The $5$ in the hundreds place has a value of $500$. Since $5{,}000 \div 500 = 10$, the $5$ in the thousands place is worth $10$ times as much as the $5$ in the hundreds place. Equivalently, the $5$ in the hundreds place is $\frac{1}{10}$ of the $5$ in the thousands place.

**Answer:** $10$ times as much

## Practice Problems

*Determine the value of the underlined digit or compare digit values.*

1. In $3{,}482$, the value of the digit $4$ is _____. _____
2. In $7.639$, the value of the digit $3$ is _____. _____
3. In $22{,}200$, how many times greater is the $2$ in the thousands place than the $2$ in the hundreds place? _____
4. In $0.555$, the $5$ in the tenths place is how many times the value of the $5$ in the hundredths place? _____
5. In $44.4$, the $4$ in the tens place is _____ times the value of the $4$ in the tenths place. _____
6. In $8{,}880$, the $8$ in the hundreds place is $\frac{1}{?}$ of the $8$ in the thousands place. _____
7. Write the value of the $6$ in $36{,}195$: _____. _____
8. Write the value of the $9$ in $4.092$: _____. _____
9. In $1.117$, the $1$ in the tenths place is _____ times the $1$ in the hundredths place. _____
10. In $63{,}600$, the $6$ in the ten-thousands place is how many times the $6$ in the hundreds place? _____
11. $0.07$ is $\frac{1}{10}$ of _____. _____
12. $500$ is $10$ times _____. _____

## Word Problems

13. Maria says the $3$ in $3{,}300$ has the same value in both places. Is she correct? Explain your reasoning using the place-value rule.

_____

14. A school collected $\$4{,}440$ for a fundraiser. Explain how the value of each digit $4$ in this number relates to the others using the $\times 10$ rule.

_____

# Answer Keys

1. $400$
2. $0.03$
3. $10$ times
4. $10$ times
5. $100$
6. $\frac{1}{10}$
7. $6{,}000$
8. $0.09$
9. $10$
10. $100$
11. $0.7$
12. $50$
13. No
14. $4{,}000,\ 400,\ 40$

## Step-by-Step Explanations

**1.** Start with the main idea. For place value, the $4$ is in the hundreds place, so its value is $400$. Place value is about position: the same digit can have a very different value in a new place.

**2.** Keep the work tidy. For place value, the $3$ is in the hundredths place, so its value is $0.03$. Saying the place name out loud is a simple way to catch a misplaced zero.

**3.** Look at what the numbers mean. For place value, the thousands-place $2$ is $2{,}000$ and the hundreds-place $2$ is $200$; $2{,}000 \div 200 = 10$. When two matching digits are side by side in different places, compare their values, not just the digits.

**4.** Use the setup first. For place value, a tenth is $10$ times a hundredth. Place value is about position: the same digit can have a very different value in a new place.

**5.** Check the size of the answer. For place value, the tens-place $4$ is worth $40$ and the tenths-place $4$ is worth $0.4$; $40 \div 0.4 = 100$. Saying the place name out loud is a simple way to catch a misplaced zero.

**6.** Match the operation to the words. For place value, the hundreds-place $8$ is one tenth of the thousands-place $8$. When two matching digits are side by side in different places, compare their values, not just the digits.

**7.** Write the important values first. For place value, the $6$ is in the thousands place. Place value is about position: the same digit can have a very different value in a new place.

**8.** Follow the pattern carefully. For place value, the $9$ is in the hundredths place. Saying the place name out loud is a simple way to catch a misplaced zero.

**9.** Start with the main idea. For place value, a tenth is $10$ times as large as a hundredth. When two matching digits are side by side in different places, compare their values, not just the digits.

**10.** Keep the work tidy. For place value, $60{,}000 \div 600 = 100$, so the ten-thousands $6$ is $100$ times as much. Place value is about position: the same digit can have a very different value in a new place.

**11.** Look at what the numbers mean. For place value, if $0.07$ is one tenth of a number, multiply by $10$: $0.07 \times 10 = 0.7$. Saying the place name out loud is a simple way to catch a misplaced zero.

**12.** Use the setup first. For place value, if $500$ is $10$ times a number, divide by $10$: $500 \div 10 = 50$. When two matching digits are side by side in different places, compare their values, not just the digits.

**13.** Check the size of the answer. For place value, the two $3$s have values $3{,}000$ and $300$, so they are not the same. Place value is about position: the same digit can have a very different value in a new place.

**14.** Match the operation to the words. For place value, each $4$ is $10$ times the value of the $4$ to its right. Saying the place name out loud is a simple way to catch a misplaced zero.

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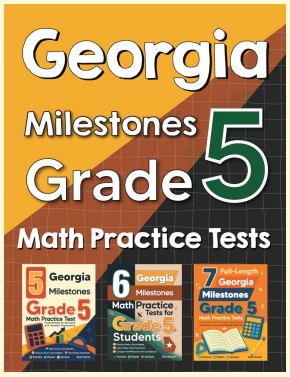


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