

# Understanding Place Value

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Score: \_\_\_\_\_ / 24

## Q Quick Review

Every digit in a number has a **place**. In a 3-digit number, the places are **hundreds, tens, and ones**. The **value** of a digit tells how much it is really worth. In 462, the 4 is in the hundreds place, so it is worth 400. The 6 is in the tens place, so it is worth 60. The 2 in 462 is in the ones place, so it is worth just 2. Reading the places from left to right helps you understand how big a number is.

◊ **Example:** What is the value of the 5 in the number 358?

⇒ Let's find which place the 5 is in. Looking at 358, the digits are hundreds, tens, and ones. The 5 is the middle digit, so it sits in the tens place. A digit in the tens place is worth that many tens. So the 5 is worth 5 tens, which is  $5 \times 10 = 50$ .

**Answer:** 50

## PRACTICE

Find the place value or value of each digit as described.

- |                          |       |  |       |
|--------------------------|-------|--|-------|
| 1. Value of the 7 in 374 | _____ | 12. Hundreds digit of 350                      | _____ |
| 2. Value of the 4 in 426 | _____ | 13. What number is 4 hundreds, 2 tens, 6 ones? | _____ |
| 3. Value of the 9 in 589 | _____ | 14. What number is 7 hundreds, 0 tens, 5 ones? | _____ |
| 4. Value of the 6 in 263 | _____ | 15. What number is 1 hundred, 9 tens, 3 ones?  | _____ |
| 5. Value of the 8 in 815 | _____ | 16. How many tens in 80?                       | _____ |
| 6. Value of the 3 in 137 | _____ | 17. How many hundreds in 600?                  | _____ |
| 7. Value of the 2 in 642 | _____ | 18. In 538, which digit is in the tens place?  | _____ |
| 8. Value of the 5 in 570 | _____ | 19. Value of the 4 in 940                      | _____ |
| 9. Hundreds digit of 793 | _____ | 20. Value of the 6 in 681                      | _____ |
| 10. Tens digit of 486    | _____ |  |       |
| 11. Ones digit of 209    | _____ |  |       |

### ◆ Word Problems

21. Mia has a number card that shows 275. Her teacher asks her for the value of the 7. What should Mia say? \_\_\_\_\_
22. Liam built a number with 3 hundreds blocks, 5 tens blocks, and 8 ones blocks. What number did he build? \_\_\_\_\_
23. A school has 604 students. What is the value of the 6 in this number? \_\_\_\_\_
24. Ava counted 9 tens of stickers. How many stickers does she have in all? \_\_\_\_\_



## Answer Keys

- |                                     |  |
|-------------------------------------|--|
| 1. <input type="text" value="70"/>  | 13. <input type="text" value="426"/>         |
| 2. <input type="text" value="400"/> | 14. <input type="text" value="705"/>         |
| 3. <input type="text" value="9"/>   | 15. <input type="text" value="193"/>         |
| 4. <input type="text" value="60"/>  | 16. <input type="text" value="8"/>           |
| 5. <input type="text" value="800"/> | 17. <input type="text" value="6"/>           |
| 6. <input type="text" value="30"/>  | 18. <input type="text" value="3"/>           |
| 7. <input type="text" value="2"/>   | 19. <input type="text" value="40"/>          |
| 8. <input type="text" value="500"/> | 20. <input type="text" value="600"/>         |
| 9. <input type="text" value="7"/>   | 21. <input type="text" value="70"/>          |
| 10. <input type="text" value="8"/>  | 22. <input type="text" value="358"/>         |
| 11. <input type="text" value="9"/>  | 23. <input type="text" value="600"/>         |
| 12. <input type="text" value="3"/>  | 24. <input type="text" value="90 stickers"/> |

### Step-by-Step Explanations

- |  |   |
|--|---|
| <p>1. The 7 is in the tens place, so its value is <math>7 \times 10 = 70</math>.</p> <p>2. The 4 is in the hundreds place, so its value is <math>4 \times 100 = 400</math>.</p> <p>3. The 9 is in the ones place, so its value is just 9.</p> <p>4. The 6 is in the tens place, so it is worth <math>6 \times 10 = 60</math>.</p> <p>5. The 8 is in the hundreds place, so it is worth <math>8 \times 100 = 800</math>.</p> <p>6. The 3 is in the tens place, so its value is 30.</p> <p>7. The 2 is in the ones place, so its value is just 2.</p> <p>8. The 5 is in the hundreds place, so it is worth 500.</p> <p>9. The first digit of 793 is in the hundreds place, so it is 7.</p> <p>10. The middle digit of 486 is in the tens place, so it is 8.</p> <p>11. The last digit of 209 is in the ones place, so it is 9.</p> <p>12. The first digit of 350 is in the hundreds place, so it is 3.</p> <p>13. Put the digits in order: 4 hundreds, 2 tens, 6 ones makes 426.</p> | <p>14. With no tens, the tens place gets a 0, so the number is 705.</p> <p>15. Put the digits in order: 1 hundred, 9 tens, 3 ones makes 193.</p> <p>16. Since <math>8 \times 10 = 80</math>, the number 80 has 8 tens.</p> <p>17. Since <math>6 \times 100 = 600</math>, the number 600 has 6 hundreds.</p> <p>18. The middle digit of 538 is in the tens place, so it is 3.</p> <p>19. The 4 is in the tens place, so its value is 40.</p> <p>20. The 6 is in the hundreds place, so it is worth 600.</p> <p>21. The 7 in 275 is in the tens place. A digit in the tens place is worth that many tens, so the 7 is worth 70.</p> <p>22. Put the digits in order by place: 3 hundreds, 5 tens, and 8 ones make the number 358.</p> <p>23. The 6 in 604 is in the hundreds place, so it is worth <math>6 \times 100 = 600</math>.</p> <p>24. Nine tens means <math>9 \times 10</math>. Since <math>9 \times 10 = 90</math>, Ava has 90 stickers.</p> |
|--|---|



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