

# Understanding Place Value Relationships

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

## Q Quick Review

In a multi-digit number, every digit has a **place value**. As you move one place to the **left**, the value gets 10 times bigger. As you move one place to the **right**, the value gets 10 times smaller. So in 4,400, the first 4 is worth 4,000 and the second 4 is worth 400 — and 4,000 is 10 times 400. The **value** of a digit is the digit times its place. In 3,728, the 7 is in the hundreds place, so its value is  $7 \times 100 = 700$ .

◇ **Example:** In the number 5,500, how many times greater is the value of the 5 in the thousands place than the 5 in the hundreds place?

⇒ Let's find each value first. The 5 in the thousands place is worth 5,000, and the 5 in the hundreds place is worth 500. Now we compare them. Think: 500 times what equals 5,000? Since  $500 \times 10 = 5,000$ , the thousands 5 is 10 times greater. That makes sense — moving one place to the left always means 10 times bigger.

**Answer:** 10 times greater

## PRACTICE

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

- |                                    |   |
|------------------------------------|---|
| 1. Value of the 6 in 627 _____     | 12. 30,000 is ___ times 3,000 _____                                   |
| 2. Value of the 3 in 1,300 _____   | 13. What is $10 \times 80$ ? _____                                    |
| 3. Value of the 8 in 8,142 _____   | 14. What is $10 \times 600$ ? _____                                   |
| 4. Value of the 7 in 4,706 _____   | 15. What is $10 \times 4,000$ ? _____                                 |
| 5. Value of the 2 in 25,000 _____  | 16. What is $9,000 \div 10$ ? _____                                   |
| 6. Value of the 9 in 90,431 _____  | 17. In 7,770, how many times the hundreds 7 is the thousands 7? _____ |
| 7. Value of the 5 in 350,000 _____ | 18. In 2,200, how many times the tens 0 aside, compare the 2s _____   |
| 8. Value of the 4 in 426,108 _____ | 19. Value of the 1 in 184,000 _____                                   |
| 9. 40 is ___ times 4 _____         | 20. Value of the 6 in 560,312 _____                                   |
| 10. 700 is ___ times 70 _____      |   |
| 11. 6,000 is ___ times 600 _____   |   |

## ◆ Word Problems

21. Maya wrote the number 3,300 on the board. Her teacher asked how many times greater the value of the 3 in the thousands place is than the 3 in the hundreds place. What should Maya say? \_\_\_\_\_
22. A baseball stadium can seat 40,000 fans. A small park can seat 4,000 fans. How many times more people can the stadium hold than the small park? \_\_\_\_\_
23. Liam is saving for a bike. He has \$600 in his savings account. The bike he wants costs 10 times that much. How much does the bike cost? \_\_\_\_\_
24. In the number 8,825, Noah points to the 8 in the thousands place and the 8 in the hundreds place. What is the value of each 8? \_\_\_\_\_



## Answer Keys

- |   |  |
|---|--|
| <p>1. <input type="text" value="600"/></p> <p>2. <input type="text" value="300"/></p> <p>3. <input type="text" value="8,000"/></p> <p>4. <input type="text" value="700"/></p> <p>5. <input type="text" value="20,000"/></p> <p>6. <input type="text" value="90,000"/></p> <p>7. <input type="text" value="50,000"/></p> <p>8. <input type="text" value="400,000"/></p> <p>9. <input type="text" value="10"/></p> <p>10. <input type="text" value="10"/></p> <p>11. <input type="text" value="10"/></p> <p>12. <input type="text" value="10"/></p> | <p>13. <input type="text" value="800"/></p> <p>14. <input type="text" value="6,000"/></p> <p>15. <input type="text" value="40,000"/></p> <p>16. <input type="text" value="900"/></p> <p>17. <input type="text" value="10"/></p> <p>18. <input type="text" value="10"/></p> <p>19. <input type="text" value="100,000"/></p> <p>20. <input type="text" value="60,000"/></p> <p>21. <input type="text" value="10 times greater"/></p> <p>22. <input type="text" value="10 times more"/></p> <p>23. <input type="text" value="\$6,000"/></p> <p>24. <input type="text" value="8,000 and 800"/></p> |
|---|--|

### Step-by-Step Explanations

- |   |   |
|---|---|
| <p>1. The 6 sits in the hundreds place, so its value is <math>6 \times 100 = 600</math>.</p> <p>2. The 3 is in the hundreds place, so it is worth <math>3 \times 100 = 300</math>.</p> <p>3. The 8 is in the thousands place, so its value is <math>8 \times 1,000 = 8,000</math>.</p> <p>4. The 7 is in the hundreds place, so it is worth 700.</p> <p>5. The 2 is in the ten thousands place, so its value is <math>2 \times 10,000 = 20,000</math>.</p> <p>6. The 9 is in the ten thousands place, so it is worth 90,000.</p> <p>7. The 5 sits in the ten thousands place, so its value is 50,000.</p> <p>8. The 4 is in the hundred thousands place, so it is worth 400,000.</p> <p>9. Moving one place left makes a digit 10 times bigger, and <math>4 \times 10 = 40</math>.</p> <p>10. Each place to the left is 10 times larger, and <math>70 \times 10 = 700</math>.</p> <p>11. <math>600 \times 10 = 6,000</math>, so it is 10 times greater.</p> <p>12. <math>3,000 \times 10 = 30,000</math>, so the answer is 10 times.</p> <p>13. Multiplying by 10 shifts the digit one place left, so <math>10 \times 80 = 800</math>.</p> <p>14. <math>10 \times 600 = 6,000</math> — just add one zero when you multiply by 10.</p> | <p>15. <math>10 \times 4,000 = 40,000</math>, ten times bigger.</p> <p>16. Dividing by 10 moves each digit one place right, so <math>9,000 \div 10 = 900</math>.</p> <p>17. The thousands 7 is worth 7,000 and the hundreds 7 is worth 700; <math>700 \times 10 = 7,000</math>.</p> <p>18. The thousands 2 is 2,000 and the hundreds 2 is 200; <math>200 \times 10 = 2,000</math>, so 10 times.</p> <p>19. The 1 is in the hundred thousands place, so its value is 100,000.</p> <p>20. The 6 sits in the ten thousands place, so it is worth 60,000.</p> <p>21. The thousands 3 is worth 3,000 and the hundreds 3 is worth 300. Since <math>300 \times 10 = 3,000</math>, it is 10 times greater.</p> <p>22. We need <math>4,000 \times ? = 40,000</math>. Since <math>4,000 \times 10 = 40,000</math>, the stadium holds 10 times more people.</p> <p>23. To find 10 times \$600, multiply: <math>10 \times 600 = 6,000</math>. The bike costs \$6,000.</p> <p>24. The 8 in the thousands place is worth <math>8 \times 1,000 = 8,000</math>, and the 8 in the hundreds place is worth <math>8 \times 100 = 800</math>.</p> |
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