Understanding Place Value Relationships

Name: _____	Date: _____	Score: _____ / 24

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

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

1. 600
2. 300
3. $8{,}000$
4. 700
5. $20{,}000$
6. $90{,}000$
7. $50{,}000$
8. $400{,}000$
9. 10
10. 10
11. 10
12. 10
13. 800
14. $6{,}000$
15. $40{,}000$
16. 900
17. 10
18. 10
19. $100{,}000$
20. $60{,}000$
21. 10 times greater
22. 10 times more
23. $\$6{,}000$
24. $8{,}000$ and 800

Step-by-Step Explanations

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

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