

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. 70 | 13. 426 |
| 2. 400 | 14. 705 |
| 3. 9 | 15. 193 |
| 4. 60 | 16. 8 |
| 5. 800 | 17. 6 |
| 6. 30 | 18. 3 |
| 7. 2 | 19. 40 |
| 8. 500 | 20. 600 |
| 9. 7 | 21. 70 |
| 10. 8 | 22. 358 |
| 11. 9 | 23. 600 |
| 12. 3 | 24. 90 stickers |

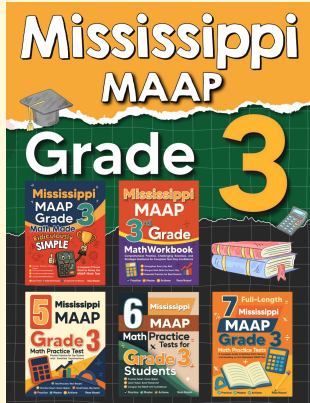
Step-by-Step Explanations

- The 7 is in the tens place, so its value is $7 \times 10 = 70$.
- The 4 is in the hundreds place, so its value is $4 \times 100 = 400$.
- The 9 is in the ones place, so its value is just 9.
- The 6 is in the tens place, so it is worth $6 \times 10 = 60$.
- The 8 is in the hundreds place, so it is worth $8 \times 100 = 800$.
- The 3 is in the tens place, so its value is 30.
- The 2 is in the ones place, so its value is just 2.
- The 5 is in the hundreds place, so it is worth 500.
- The first digit of 793 is in the hundreds place, so it is 7.
- The middle digit of 486 is in the tens place, so it is 8.
- The last digit of 209 is in the ones place, so it is 9.
- The first digit of 350 is in the hundreds place, so it is 3.
- Put the digits in order: 4 hundreds, 2 tens, 6 ones makes 426.
- With no tens, the tens place gets a 0, so the number is 705.
- Put the digits in order: 1 hundred, 9 tens, 3 ones makes 193.
- Since $8 \times 10 = 80$, the number 80 has 8 tens.
- Since $6 \times 100 = 600$, the number 600 has 6 hundreds.
- The middle digit of 538 is in the tens place, so it is 3.
- The 4 is in the tens place, so its value is 40.
- The 6 is in the hundreds place, so it is worth 600.
- 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.
- Put the digits in order by place: 3 hundreds, 5 tens, and 8 ones make the number 358.
- The 6 in 604 is in the hundreds place, so it is worth $6 \times 100 = 600$.
- Nine tens means 9×10 . Since $9 \times 10 = 90$, Ava has 90 stickers.



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