

4th Grade Math Study Guide For Lesson 1.2 (Understand Place Value)

Objective: To read, write and identify the value of whole numbers

Textbook Reference: Pp. 4-5

- The value of a digit in a number depends upon the place-value position of that digit.
Example: The value of the digit 7 in 3,750 is 700 because it is in the hundreds place

Thousands	Hundreds	Tens	Ones
3,	7	5	0

- Place values are based on tens. Starting with the ones place on the right, your place value increases by powers of 10.
Example: To find the value of the digit 5, first decide the place-value position of the 5. The 5 is in the _____ position. So $5 \times 10 = 50$, so the 5 has a value of 50.

3×1000	7×100	5×10	0×0
3,000	700	50	0

- To find the value of a digit in a number, multiply the digit by the place-value position of that digit.

Think About It: If I wanted to increase 3,750 by 5,000. I would need to increase the digit in the thousands place by 5. 3,750 increased by 5,000 is 8,750. Notice that the only change was the increase by 5 in the thousands place.

Practice

Look at the number 48,792

- In what place-value position is the 4? _____
- Complete to find the value of the 8. $8 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
- What is the value of the 9? _____
- What is the value of the 2? _____

For 5-10 use the numbers at the top of each column to complete.

	45,893 to 85,893	88,203 to 81,203
In what place value was a digit changed?	5. _____	6. _____
Was the digit increased or decreased?	7. _____	8. _____
What is the change in the value of the number?	9. _____	10. _____

Assignment: P. 5 #9-23 (odds); #25-33 (all)