| **Main Learning Goal and Core Concepts:** The goal of the lesson is to understand how to round numbers. Students will primarily focus on understanding when they need to round numbers and at what position. | | |
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| **Lesson Brief:**  **Rounding** is replacing a number with a value in an estimate form.  **Place value** is the value of each digit in a number.  **Steps to rounding numbers:**   1. Underline what place value the number needs to be rounded. 2. Look at the place value and determine if it needs to be rounded up or down.    1. 5 or more, raise the score. This means if the value to the right of the number is 5 or greater, you would round the number up by 1 value.    2. 4 or less, let it rest. This means if the value to the right of the number is 4 or less, then no rounding needs to be done. 3. After rounding, the rest of the values after the place value are 0.   **Example:**  **Round the following number to the nearest thousand:**  1,539   1. **Read the direction on what place value the number needs to be rounded.**   The directions ask to round to the nearest thousand, meaning the thousand place will be looked at. In this case, the 1 in 1,539 is in the thousands place.   1. **Look at the place value and determine if it needs to be rounded up or down.**   To determine if the place value, 1, needs to be rounded up or down, the next number is observed. The number next to the thousands place is 5 in 1,539. The number is 5 which means the 1 in 1,539 should be rounded to 2.  **After rounding, the rest of the values after the place value are 0.**  The rounded number should be **2,000**. | | |
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| **Practice Problems:**  **Round the following numbers to the nearest ten.**  1. 804  **Answer: 800**  **Explanation:**  0 is in the tens place so we will underline 0. Then we will observe the next number to see if 0 will be rounded up or down. The next number is 4, however, because it is 4 or less, we will let the zero be. The final answer is 800.  2. 298  **Answer: 300**  3. 171  **Answer: 180**  4. 735  **Answer: 740**  5. 180  **Answer: 180**  **Round the following numbers to the nearest hundred.**  6. 9,820  **Answer: 9,800**  7. 8,684  **Answer: 8,700**  8. 1,083  **Answer: 1,100**  9. 195  **Answer: 200**  10. 4,710  **Answer: 4,700**  **Round the following numbers to the nearest thousand.**  11. 8,764  **Answer: 9,000**  12. 160  **Answer: 0**  13. 4,137  **Answer: 4,000**  14. 3,941  **Answer: 4,000**  15. 6,273  **Answer: 6,000**  **Round the following numbers to the nearest ten thousand.**  16. 87,211  **Answer: 90,000**  17. 710, 565  **Answer: 710,000**  18. 768,194  **Answer: 770,000**  19. 914,574  **Answer: 910,000**  20. 15,850  **Answer: 20,000** | | |
| **Notes:**   * If the value is 9 and needs to be rounded up, then the value to the left will be rounded up and the rest of the values are 0. * All the values after the underlined place value become a 0. * For more information regarding rounding numbers, consider the link [here](https://www.k5learning.com/free-math-worksheets/fourth-grade-4/place-value-rounding). | | |
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