

**Lesson:** Estimation and Problem Solving

**4<sup>th</sup> Grade Objective:** 1.01d – Make estimates of rational numbers in appropriate situations

**Vocabulary:** Estimation tells you what number the answer to a problem should be close to. You can use estimation before you solve the problem to be sure your answer is reasonable (makes sense).

Rounding is the most common way to estimate.

**Lesson:**

To round any whole number:

1. Underline the number being rounded.
2. Look to the number to the right of the number underlined.
3. If the number to the right is 0, 1, 2, 3, or 4, the underlined number stays the same.  
If the number to the right is 5, 6, 7, 8, or 9, we increase the underlined number by 1.
4. Write a zero or zeros as placeholders after the rounded digit.

Round 2, 3 4 5 to the nearest hundred.

The 3 is in the hundreds place, so underline the 3. Now, look at the digit to the right which is 4.

Because 4 is less than 5, the 3 in the hundreds place will remain the same. Write zeros as placeholders in all the place values to the right of the 3.

As a result, 2, 3 4 5 rounded to the nearest hundred is 2, 3 0 0.

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Round 5, 2 7 5 to the nearest ten.

The 7 is in the tens place so underline the seven. Now look at the digit to the right, it is a 5.

Because 5 is equal to 5 or greater, we will increase our underlined number by 1 making it an 8. We will then write zeros as placeholders in the remaining place values to the right of the number being rounded.

As a result, 5, 2 7 5 rounded to the nearest ten is 5, 280.

**Practice:**

1. Round 1,394 to the nearest ten.

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2. Round 659 to the nearest hundred.

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3. Round 143 to the nearest

Ten: \_\_\_\_\_ Hundred: \_\_\_\_\_

4. Round 7,519 to the nearest

Hundred: \_\_\_\_\_ Thousand: \_\_\_\_\_

5. Round 54,803 to the nearest

Ten: \_\_\_\_\_ Thousand: \_\_\_\_\_

Hundred: \_\_\_\_\_ Ten Thousand: \_\_\_\_\_

6. Round 53,792 to the nearest

Ten: \_\_\_\_\_ Thousand: \_\_\_\_\_

Hundred: \_\_\_\_\_ Ten Thousand: \_\_\_\_\_

7. Round 30,919 to the nearest

Ten: \_\_\_\_\_ Thousand \_\_\_\_\_

Hundred: \_\_\_\_\_ Ten Thousand \_\_\_\_\_