Lesson 14: Rounding

**Purpose of Lesson:** You will learn how to round and estimate.

**Words to Learn:**

*Round* and *estimate* are two words that go together, and we use them in our daily activities. *Estimate* means *about how much*. *Round* means that the last digit(s) in your answer will be one or more *zeros* (0).

For example, if something costs $1.89, we estimate that it will cost *about* $2.00. Or if a TV is priced at $199, we know that it will cost about $220, *with tax*.

This is how it works:

If you want to round a number to the *tens* place, these are the steps to follow:

1) Find the tens place.
2) Then, look at the number to its right.
3) If that number is 5 or more, round to the next ten.
4) If the number to the right is 4 or less, *leave the tens number alone* and replace the number to the right with a zero (0).

**Let’s do some together.**

Example a) Round 18 to the *nearest ten*.

18

1) The 1 is in the tens place.
2) Look at the 8.
3) 8 is larger than 5, so you round up to 20, since that is the next ten.

**Answer:** 18 rounded to the nearest ten is 20
Example b) Round 34 to the nearest ten.

1) The 3 is in the tens place.
2) Look at the 4.
3) It is less than 5, so you replace the 4 with a 0.

**Answer:** 34 rounded to the nearest ten is 30

Example c) Round 172 to the nearest ten.

1) The 7 is in the tens place.
2) Look at the 2.
3) It is less than 5, so you replace the 2 with a 0.

**Answer:** 172 rounded to the nearest ten is 170

**Note:** We will use the symbol ≈ to show numbers rounded off.

Now you try:

**Take Lesson 14 Quiz 1**

You may round and estimate to any place. Just follow the same steps in different places.

Example d) Round 4,876 to the nearest hundred.

1) The 8 is in the hundreds place.
2) Look at the 7, it's in the next place to the right.
3) 7 is larger than 5, so you raise the 8 to 9, and replace the other two digits with zeros.

**Answer:** 4,876 rounded to the nearest hundred is 4,900.
Example e) Round 108,321 to the nearest thousand.

108,321

1) The 8 is in the thousands place.

2) Look at the 3, it's in the next place to the right.

3) 3 is less than 5, so leave the 8 alone and replace the digits to the right with zeros.

Answer: 108,321 rounded to the nearest thousand is 108,000.

Now it's your turn to try some:

Take Lesson 14 Quiz 2