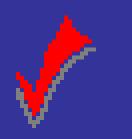


**Objective**:

- •Round Decimals to a certain place value
- •Understand the rules when rounding

•Be able to do this with accuracy when finding the mean, median, mode and range





# The Vocabulary

- Rounding
- Approximately
- Nearest
- Hundredths
- Place value
- Almost
- Close to

- Estimation
- Tenths
- Thousandths
- Reasonable
- Nearly

### Rounding to the Nearest Hundredth

Since the 5 is in the hundredth place, we must look at the 6 to round



#### RULES FOR ROUNDING

- 1. <u>Underline</u> the number in the place value you will round.
- 2. Look at the number to the right of the underlined number.
- 3. If the number to the right is 0, 1, 2,3, or 4, then the underlined number stays the same.
- 4. If the number to the right is 5, 6, 7,8, or 9, then the underlined number needs to go up one more number.
- 5. Every number to the right of the underlined disappears

## Rounding To the Nearest Hundredth

Since the "7" is five or higher we are rounding up. The zero becomes an one.



### Rounded Answer: 5. 21

#### RULES FOR ROUNDING

- 1. <u>Underline</u> the number in the place value you will round.
- 2. Look at the number to the right of the underlined number.
- 3. If the number to the right is 0, 1, 2,3, or 4, then the underlined number stays the same.
- 4. If the number to the right is 5, 6, 7,8, or 9, then the underlined number needs to go up one more number.
- 5. Every number to the right of the underlined number disappears

## Rounding to the Nearest Tenth

Find the mean of the following numbers:

34, 23, 45, 21, 17, 25, 56

Find the Total: 221 Divide by 7: 31.257142857

Rounding to the nearest tenth: 31. 25 Rounded Answer:

#### RULES FOR ROUNDING

- 1. <u>Underline</u> the number in the place value you will round.
- 2. Look at the number to the right of the underlined number.
- 3. If the number to the right is 0, 1, 2, 3, or 4, then the underlined number stays the same.
- 4. If the number to the right is 5, 6, 7, 8, or 9, then the underlined number needs to go up one more number.
- 5. Every number to the right of the underlined number becomes a zero.



# Review the vocabulary

- Rounding
- Approximately
- Nearest
- Hundredths
- Place value
- Almost
- Close to

- Estimation
- Tenths
- Thousandths
- Reasonable
- Nearly

### These Skills can be applied to rounding to any place value. Keep the rules in mind for all place values.

Practice: Find the mean of the following data sets.

1. 3.4, 5.6, 1.2, 2.3, 2.1, 7.8, 3.7 – round to the nearest hundredth

2. 23, 45, 12, 8, 16, 35, 28, 7 - round to the nearst tenth