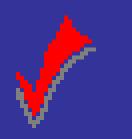


Objective:

- •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