4.2 ORDER AND ROUNDMING

Learning Objectives:
1. Compare decimals. (Use <, >, or =; write decimals in order).
2. Round a decimal number to a given place value. Include monetary values.
3. Key Vocabulary: < (less than), > (greater than), = (equal to), round the decimal part.

1. Comparing Decimals

To compare decimal—lines up the decimal point, then compare corresponding digits, starting at the left until the two of the digits are different. If necessary, added zeros.

Example 1. Insert <, >, or = to form a true statement.

1. 0.2 _____ 0.5
2. 0.14 _____ 0.14000

Example 2. Write the decimals in order from smallest to largest.

26.601, 26.631, 27.040, 26.630

2. Rounding Decimals

Steps for Rounding Decimals to a Place Value to the Right of the Decimal Point
1. Underline the digit that needs to be rounded. (the given place value)
2. Locate the digit to the right, then
   a) If this digit is 5 or greater, add 1 to the digit in the given place value and delete all digits to its right.
   b) If this is less than 5, delete all digits to the right of the given place value.

Example 3. Round each decimal to the given place value.

1. 0.39 to the nearest tenth
2. 0.585 to the nearest hundredth
3. 835.006 to the nearest ten

Example 4. Round each monetary amount to the nearest cent or dollar as indicated.

1. $0.058 to the nearest cent
2. $17.88 to the nearest dollar

Read:  Section 4.3/4.4