Prealgebra, Chapter 1 Whole Numbers,
1.1 Introduction to Numbers, Notation, and Rounding

**Definitions:**
- Numbers – Amounts or quantities.
- Set – A group of elements.
- Subset – A set within a set.
- Natural numbers – 1, 2, 3, ….
- Whole numbers – 0, 1, 2, 3, ….
- Equation – A mathematical statement that contains an equal sign ( = )
- Inequality – A mathematical statement that contains an inequality sign ( >, ≥, <, ≤).
- Statistic – A number used to describe some characteristic of a set of data
- Median – The middle value in an ordered list of values

**Objective 1:** Name the digit in a specific place.
- What digit is in the thousand place in 209,812?
- What digit is in the hundred thousands place in 417,290,006?

**Objective 2:** Write numbers in standard and expanded form.
- 57,483
- 4,705,208
- 6 \times 10,000 + 9 \times 1000 + 2 \times 100 + 5 \times 10 + 3 \times 1
- 9 \times 1,000,000 + 2 \times 10,000 + 7 \times 100 + 9 \times 10 + 3 \times 1

**Objective 3:** Write the word name for the given number.
- The Earth is, on average, 92,958,349 miles from the sun. Write the word name for 92,958,349
Objective 4: Use <, >, or = to make true statement.

- 159,208 ___ 161,000
- 48,090 ___ 12,489

Objective 5: Interpret number lines, bar graphs, and line graphs

- Graph “5” on a number line

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0   1      2        3      4       5       6
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Objective 6: Round numbers to a specified place.

Round 43,572,991 to the specified place
- Hundred thousands
- Ten thousands
- Millions
- Hundreds

Round each so there is only one nonzero digit.
- 36,568
- 621,905

Objective 7: Find the median of a list of values

- To find the median of a list containing an odd number of values
  - Arrange the values in order from least to greatest
  - Locate the middle value. It is the median