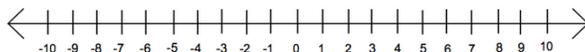


# ORDERING, ESTIMATION, & ROUNDING

## PRAXIS FLASHCARD #193

### NUMBER LINE

A **number line** is a straight line where each point of that line corresponds to a real number. A line is made up of an infinite number of points and there are an infinite amount of real numbers. Usually the line is marked off to show the integers, including zero. A number line is generally written as a horizontal line.



## PRAXIS FLASHCARD #28

### ORDERING WHOLE NUMBERS

When you are asked to order large numbers, write them above one another with the place values lined up. Then, starting from the left, look for the largest value. For example, if you are asked to order:

5,139    986,733    3,950    77,922

Write them above each other with the place values lined up as you would if you were going to add the numbers. Looking at the place values from left to right, the largest number is 986,733. The next largest number is 77,922. Both the first and third numbers start in the same place value but 5 is larger than 3 so 5,139 is larger than 3,950:

5,139
986,733
3,950
77,922

## PRAXIS FLASHCARD #26

### ROUNDING NUMBERS

**Rounding** a number requires that you understand place value. Rounding a number is a type of estimation. Rounding is also called "rounding off." To round a number, look at the digit to the right of the place being rounded. If that digit on the right is 5 or higher, add 1 to the place being rounded; otherwise, leave the place being rounded as is. Change all places to the right of the place being rounded to zeroes.

## PRAXIS FLASHCARD #137

### COMPARISON SYMBOLS

The following five symbols are called **comparison symbols**:

- < less than
- > greater than
- ≤ less than or equal to
- ≥ greater than or equal to
- = equal to

Each of these symbols can also be negated by putting a slash mark through them, such as not equal to:  $\neq$

## PRAXIS FLASHCARD #278

### ESTIMATION

**Estimation** is a mathematical process of finding an approximate value of a variable, expression, or operation. The most common way to find an estimate is to round off the numbers in the problem to numbers that are easy to calculate and then find the answer to the rounded problem. The symbol for an estimated or approximate answer is  $\approx$ .

For example:

$$287 + 321 + 878 \approx 300 + 300 + 900 = 1,500$$