Name:

Date:

Lesson 1.1.3 (Part 1) Homework

**1-19.** Use your graphs from page 10 in your notebook to answer the questions below.

* 1. How can the graph for the rule y = 2x + 1 be used to predict the result for an input (x-value) of 7?  How can the graph be used to predict the output (y-value) associated with an input of 3?

* 1. If you wanted an output of 7 for the rule y = –x + 4, what would you need as an input?
  2. For each of the rules in parts (a) through (e) of problem 1-17, where does the graph cross the y-axis?  Describe any patterns you notice.

**1-20.** Solve the problem below by defining a variable and then writing an equation.  If you find this too challenging, then use the 5-D Process described in this lesson’s Math Notes box to help you get started.  State your solution in a sentence.

Jabari is thinking of three numbers.  The greatest number is twice as large as the least number.  The middle number is three more than the least number.  The sum of the three numbers is 75.  Find the numbers.

**1-21.** Latisha's friend Brandee forgot to make up a test and had these scores: 80%, 92%, 91%, 75%, 89%, 84%, 0%, and 85%.

1. Calculate Brandee's average. Does this average score really represent her abilities? Why or why not?
2. Brandee persuaded her teacher, Ms. Juarez, to allow her to make up the missed test. Brandee received a 78%. Calculate her new mean.
3. What difference did the 0% score make? Does this new mean represent Brandee's ability more accurately?