NO QUIZ TODAY!

I will check your 1.2 Homework as soon as I get attendance taken.

Get out your books and begin lesson 1.3 on page 13.

1.3 Scott's Macho March

A Solidify Understanding Task

After looking in the mirror and feeling flabby, Scott decided that he really needs to get in shape. He joined a gym and added push-ups to his daily exercise routine. He started keeping track of the number of push-ups he completed each day in the bar graph below, with day one



showing he completed three push-ups. After four days, Scott was certain he can continue this pattern of increasing the number of push-ups for at least a few months.

y=
$$mx+b$$

 $y-int$
 $y-$

Scott's gym is sponsoring a "Macho March" promotion. The goal of "Macho March" is to raise money for charity by doing push-ups. Scott has decided to participate and has sponsors that will donate money to the charity if he can do a total of at least 500 push-ups, and they will donate an additional \$10 for every 100 push-ups he can do beyond that.

2. Estimate the total number of push-ups that Scott will do in a month if he continues to increase the number of push-ups he does each day in the pattern shown above.

3. How many push-ups will Scott have done after a week?

4. Model the total number of push-ups that Scott has completed on any given day during "Macho March". Include both recursive and explicit equations. day $\chi^2 + X + X$

5. Will Scott meet his goal and earn the donation for the charity? Will he get a bonus? If so, how much? Explain. $f(31) = (31)^2 + 2(31)$

Homework/Classwork

Finish 1.3