Name_____ Pd_____ Date_____ **Section 2.R.2**

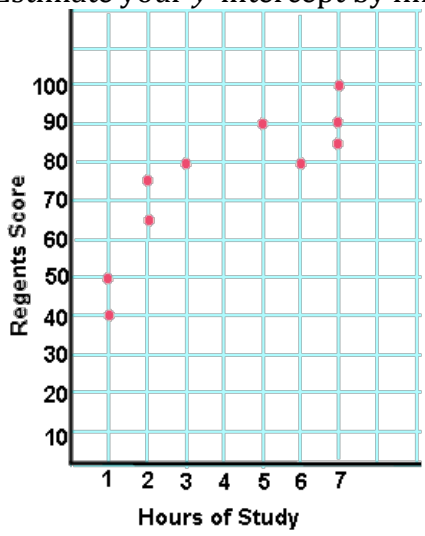
Review - Writing Linear Equations

Next/Now Statements	Function Rules
These patterns are called *recursive.* The rule for the Next item relies on what you got for the Now item. THESE ARE NOT FUNCTION RULES - they only work if you KNOW both the Next and the Now.	These patterns follow rules that work for ANY input, regardless of where you are in the pattern. You can plug in ANY input, follow the rule, and get the correct output.
Ex. 1 $-3, 9, -27, 81, -243$ a. $Next = Now \cdot -3$ b. $Next = Now \cdot 3$ c. $Next = Now + 12$ d. $Next = Now + 6$	Ex. 2 Which expression is the output of nth term? Input: 1, 2, 3, 4, n Output: 5, 8, 11, 14, _____ a. $n + 3$ b. $n + 17$ c. $3n + 2$ d. $3n - 2$
You Try 3 $15, 8, 1, -6, -13$ a. $Next = Now \cdot -7$ b. $Next = Now \cdot 7$ c. $Next = Now - 7$ d. $Next = Now + 7$	You Try 4 Which expression is the output of nth term? Input: 1, 2, 3, 4, n Output: 3, 1, -1, -3, _____ a. $n - 2$ b. $n - 5$ c. $2n - 5$ d. $-2n + 5$

Scatterplots

ALWAYS sketch a trend line first.

- Estimate your slope using _____.
- Estimate your y-intercept by finding where the line _____.



Which equation could represent the line of best fit?

a. $y = -7.5x + 30$

b. $y = -7.5x + 45$

c. $y = 7.5x + 30$

d. $y = 7.5x + 45$

Write a sentence describing this relationship.

Don't forget! Your slope (m) is the rate of change and your y-intecept (b) is the starting point!