Warmup

All make up work due today - make sure your name is on it and turn in to the bin at the front

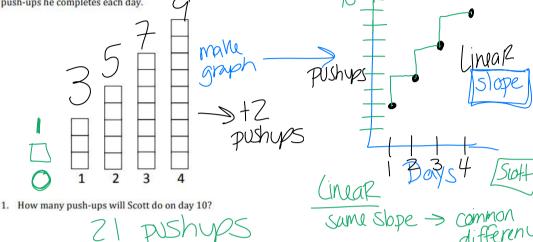
Find the pattern and see if you can i	make the equation
1 3, 5, 7, 9	9 14, 19, 24, 29
+2) common difference	+5 +5 > common difference
(2x+1) difference	5x+9
What does f(n) represent?	What does f(1) stand for?
current term	1st term ((111)
Function	+(14)
Notation	14h topm
	II /CM'C

Scott's Workout

A Solidify Understanding Task



Scott has decided to add push-ups to his daily exercise routine. He is keeping track of the number of push-ups he completes each day in the bar graph below, with day one showing he completed three push-ups. After four days, Scott is certain he can continue this pattern of increasing the number of push-ups he completes each day.



2. How many push-ups will Scott do on day n?

3. Model the number of push-ups Scott will complete on any given day. Include both explicit and

recursive equations. *a,=1st term ever change $G_n = G_{n-1} + 2$ 4. Aly is also including push-ups in her workout and says she does more push-ups than Scott

because she does fifteen push-ups every day. Is she correct? Explain.

Aly does more Scott

Until Day 7. At

day 7 tied. After

Day 7, Scott does more. 15

Explicit & Pocursive Explicit <u>10-3n+3</u> Selicit Recursive

-3, 5, 13...

An = 15 + 6n - 6 An = 9 + 6n $A_{1} = 15$ $A_{2} = 15$ $A_{2} = 15$ $A_{3} = 4n - 1 + 6$

 $\frac{4000000}{a_1=15}$ $\frac{4000000}{a_1=15}$ $\frac{1}{a_1=15}$ $\frac{1}{a_1=15}$ $\frac{1}{a_1=15}$ $\frac{1}{a_1=15}$ $\frac{1}{a_1=15}$ $\frac{1}{a_1=15}$ $\frac{1}{a_1=15}$

 $Q_n = Q_{n-1} - 4$