Warmup

All make up work due today - name on it and turn it into the bin up front

What is the recursive

1) Find the pattern and see if you can make the equation

3 6, 9, 12, 15...

+3 common difference

2) What does f(n) represent?

Function Notation

45 40, 35, 30, 25...

-5 common -5x+45 difference

What does f(1) mean?

 $U_{N} = U_{N-1} + U_{N-1}$ What is the explicit equation for

equation for

arithmetic?

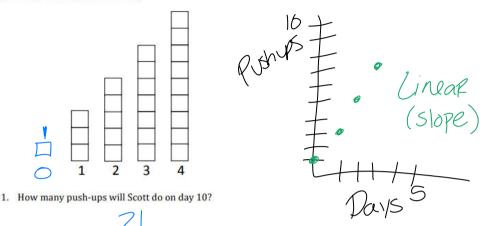
arithmetic? $a_n = a_1 + d(n-1)$

Scott's Workout

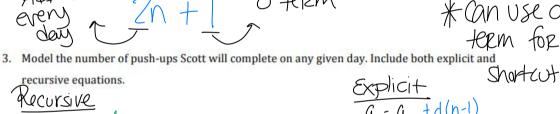
A Solidify Understanding Task

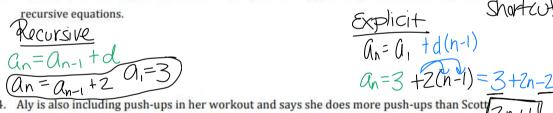


Scott has decided to add push-ups to his daily exercise routine. He is keeping track of the number of push-ups he completes each day in the bar graph below, with day one showing he completed three push-ups. After four days, Scott is certain he can continue this pattern of increasing the number of push-ups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



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

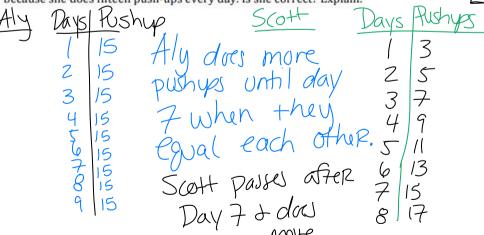




because she does fifteen push-ups every day. Is she correct? Explain.

Aly Days Rushup

Scott Days Rushup



Explicit & Recursive

(D) 10, 18, 26, (2)-12,-15,-18....

 $3 \pm 1, \frac{3}{2}, 2...$ 9 - 7, 10, 27...

(5) 45, 33, 21, 9... (6) 8, 2, -4, -10...

2) &x: An = -12 - 3n + 310+8n-8(n-1) $a_1 = -12$ $a_1 = -12$ $a_1 = -13$ $R(a_{n-1}+8 a_{1}=10)$ Exp: 17n-24 Rec. an=an-1 +2 Rec'. an=an-1+17 ares $a_i = -7$

Rec An=4h-1-6 A1=8

(3) Exp. 5~ 6) Exp: -6n+14 5) Exp -12n+57

Roc! An= An-1 -12

A = 45