Warmup: Find the pattern

1) 0.25, 0.75, 1.25, 1.75...

2) -5, -9, -13, -17...

3) Flnd the pattern and see if you can make an equation -10, 10, 30, 50...

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.

1. How many push-ups will Scott do on day 10?

d=2 difference

of make 4

will Scott do o day 12 2. How many push-ups will Scott do o day n?

only do Cestain #

3. Model the number of push-ups Scott will com Anthmetic -> Adding / Subtracting recursive equations.

1st tekm d = (ommon

Aly is also including push-ups in her workout and say because she does fifteen push-ups every day. Is she correct? Explain

 $A_n = A_{n-1} + 2$

> need dam

+2 everyday more pushups Until day 7.

5 11 Day 7 they

6 13 equal each other.

7 17 Day 8 and more

Scott wins.

Forever 15 $\frac{\xi_{\text{quation}}}{2n+1} = 365$

2n = 364 2(n = 182)Days

-3, 5, 13...

10, 5, 0, -5...

-7, -4, -1...