Warmup the explicit & Rearsive 2) 10, 8.5,7. 4,-12,36 Anthmetic

Chew On This

A Solidify Understanding Task



https://flic.kr/p/4DE69H

Mr. and Mrs. Gloop want their son, Augustus, to do his homework every day. Augustus loves to eat candy, so his parents have decided to motivate him to do his homework by giving him candies for each day that the homework is complete. Mr. Gloop says that on the first day that Augustus turns in his homework, he will give him 10 candies. On the second day he promises to give 20 candies, on the third day he will give 30 candies, and so on.

 Write both a recursive and an explicit formula that shows the number of candies that Augustus earns on any given day with his father's plan.

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 $A_{n} = 10 + 10(n-1)$

2. Use a formula to find how many candies Augustus will get on day 30 in this plan.

10(30) = 300 pieces

Augustus looks in the mirror and decides that he is gaining weight. He is afraid that all that candy will just make it worse, so he tells his parents that it would be ok if they just give him 1 candy on the first day, 2 on the second day, continuing to double the amount each day as he completes his homework. Mr. and Mrs. Gloop like Augustus' plan and agree to it.

3. Model the amount of candy that Augustus would get each day he reaches his goals with the

new plan.

 $A_{i}=1$ $f_{i}=2(\Omega_{n-1})$

