Life

In the Eyes of Helene.

By:

September 15, 1916

Today papa died. Mama said he was fighting in the war, so he died for his country, Austria. It's my birthday, I'm 5. Mama says that I'm a big girl now, so she gave me a diary and told me to write down everything important to me so I can look back at it later. I saw mama cry when the man in a uniform came and told us the about papa, but lately she's just been quiet. She found work in a factory and I go to school. I try to help her as much as I can, but I can only do so much. I wish I was older so I could help her more. I can talk care of my baby sister and keep the bottom part of the house clean and help cook and help shop. But there's still so much I can't do.

September 15, 1926

I'm 15 today. Mama remarried. She seems happier now. I think I am, too. I've started swimming and going to the opera again. And she's smiling and calling me Helly. My step-father is Catholic, like mama and I. Papa was a Jew. I'm going to go to law school soon.

September 15, 1930

My dog, Lydi, died. I can't believe it. I'm 19. I'm in a hospital because I heard voices in my head. The doctors say it's called schizophrenia. I lost my job as a legal secretary.
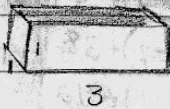
Unit Project
Part 1

1 rod = 26 units,	
2 rods = 42 units	
3 rods = 58 units	

6

each time you add a rod, the surface area increases by 16

$$A = 16(n-1) + 26$$

3

1 = 14 units
2 = 24 units
3 = 34 units

each time you add a rod, the surface area increases by 10

$$A = 10(n-1) + 14$$

7

1 = 30 units
2 = 48 units
3 = 66 units

every time you add another rod, the surface area increases by 18

$$A = 18(n-1) + 30$$

universal equasion $= (2[L+2][n-1]) + (5L-[L-2])$

equasions represent linear equasions (there are <u>no</u> exponents in any equason I used)

rod length	SA equasion
2	$A = 8(n-1) + 10$
3	$A = 10(n-1) + 14$
4	$A = 12(n-1) + 18$
5	$A = 14(n-1) + 22$
6	$A = 16(n-1) + 26$
7	$A = 18(n-1) + 30$
8	$A = 20(n-1) + 34$
9	$A = 22(n-1) + 38$
10	$A = 24(n-1) + 42$

n = # of rods

in a stack of 50 rods, and the length of each is 10, the surface area is 1218 units

Part 2

rods with lengths of 4 formed to make a rectangular prism   dementions = $4n^2$

Surface area of a prism with rods (length=4) =

$$A = 2n^2 + 4(4n)$$

(height and depth are the same)

the surface area of a rectangular prism that is 10 rods high and wide is 360 units