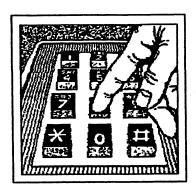
## SUNSHINE MATH - 8 Pluto, XXVI

Name:							_
	(This s	hows	mγ	own	thinking.	)	

****	1.	Mr. Nielsen, a grocer, stacks all of his apples in triangular pyramids. Each layer of apples is in the shape of an equilateral triangle, and the top layer is a single apple.
•		a. How many apples are in a stack four layers high?
		b. How many apples are in a stack five layers high?
		c. How many apples are in a stack six layers high?
		d. How many apples are in a stack ten layers high?
***	2.	Every day, I count the fleas on my dog. The first day he had 1 flea, the second day 3, the third day 5, then 7, then 9, and so on.
		a. How many fleas were there on the 100th day?
		Answer:
		b. Write an algebraic expression for the number of fleas on the <i>nth</i> day:
		Answer:
*	3.	$1 \times 10^{-4}$ meters is the thickness of a piece of paper. Write this measurement as a decimal.
		Answer: meters
*	4.	. What fraction of the letters in the word multiply are also in the word product?
		Answer:

\*\*\* 5. Telephone area codes have three digits. The first digit must be chosen from 2 through 9. The second digit must be a 0 or a 1. The third digit cannot be 0. How many area codes are possible?



Answer: area codes

★★ 6. A 25-foot ladder is placed against the top of an inside wall 20 feet high. How far out from the wall will the foot of the ladder be placed?



Answer: \_\_\_\_\_feet

 $\star\star$  7. Five identical helium balloons are shown on the scale. They have negative weights since they pull up. Use n to stand for the weight of the newspaper.

а.	Write a	an ea	uation	for	this	situation.
u.	******	*** 04	-	101		0110000

Answer: \_\_\_\_\_

b. Intuitively, find the weight of the newspaper.

Answer: \_\_\_\_\_

