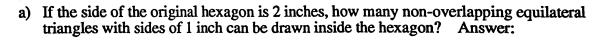
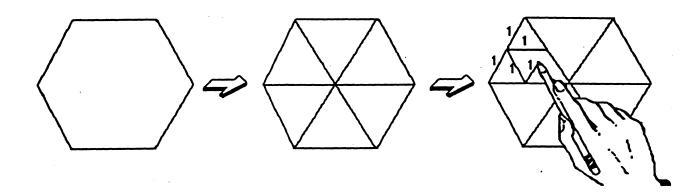
SUNSHINE MATH - 8 Pluto, XXIV

Name:					· —-
	(This	shows	my own	thinking.)	

** 1. A regular hexagon can be divided into six equilateral triangles by connecting the opposite vertices.



b) If the side of the original hexagon is 4 inches, how many equilateral triangles with sides of 1 inch can be drawn? Answer: _____



★★★ 2. The volume of a sphere is given by $V = \frac{4}{3}\pi r^3$. The earth's radius is about 4000 miles. The sun's radius is about 433,000 miles. Answer (a) and (b) below using scientific notation:

a. What is the approximate volume of the earth?_____ mi³

b. What is the approximate volume of the sun? _____ mi³

c. How many earths would fill up the sun?

★ 3. Justin has 13 coins in his pocket that total \$1. What coins does he have?

Answer: ___ pennies, ___ nickels, ___ dimes, ___ quarters



**	4.	A fast stamp machine can make 360 stamps in 3 seconds. How many stamps can such a machine make in a normal, eight hour workday?
		Answer:stamps
***	5.	The school policy is to open student lockers regularly to check for illegal items. The following pattern is followed from September through May: September: Open $\{2, 4, 6, 8,, 2n,\}$ October: Open $\{3, 6, 9, 12,, 3n,\}$ November: Open $\{4, 8, 12, 16,, 4n,\}$
		December: Open {5,10,15, 20,,5n,}
		a Which locker would be opened most often? b. Which lockers from 1-100 would never be opened?
**	6.	Juanita spent half of her money on a new skirt. She then spent half of the remaining amount on a new blouse and lunch. If she had \$11.00 left at the end of the day, how much money did she start with?
		Answer: \$
*	7.	A sign in a department store says, "Sale! All C.D. players are now 25 % off!" George wants a C.D. player that was originally \$240.00. He can calculate the price he has to pay by multiplying \$240 by which fraction?
		SIZZIANT.
		Answer: