## SUNSHINE MATH - 8 Pluto, XIX

Name:		
	(This shows my own thinking.)	

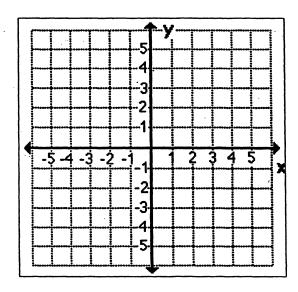
★ 1. Is 1,000,000 minutes closer to 1 year, 2 years, or 3 years?

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

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2. Plot these points on the grid and connect them *in order*. You would get a familiar picture, except one of the points is a little off. Which point is wrong, and what should it be? (The picture should be symmetrical about the y-axis.)

Answer: The point \_\_\_\_\_ is incorrect. It should be the point \_\_\_\_\_



★★★ 3. Chad, Missy, Luke and Mary measured their heights. Their heights, not necessarily in order, were 5'3", 5'7", 5'11", and 5'9". Use the following clues to determine who was 5'9". Missy was taller than Mary, but not the tallest. Luke was taller than Missy, but not as tall as Chad.

Answer : \_\_\_\_\_ is 5'9"

★ 4. What geometric term describes a sunburned man?

★★★ 5. The highest "stunt dives" ever recorded into an air bag are 360 feet for the male record height, and 180 feet for the female height record. Use  $v = 5\sqrt{d}$  to find out approximately how fast each of these divers was traveling when they hit the air bag. (d is distance of the fall in feet, and v is velocity in miles per hour)

Answer: The male was going \_\_\_\_ mph; the female was going \_\_\_\_ mph

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***	6.	Jessica wants to add a liquid vitamin to her to add 3 mL per 6 pounds of the dog's body we weighs 28 lbs.? How much will she need for	ight. I	How much w	ill she need	11 Koko	
				Answer:	Koko:	mL	
					Big Dog: _	mL	
***	7.	Mr. Bonti is replacing the square tiles in his tand 3 inches wider than an old tile. Each new tile.	oathro v tile	om. Each ne covers 39 squ	w tile is 3 in nare inches n	ches longer nore than an old	
		<ul><li>a. How big were the old square tiles?</li><li>b. If the area of the room is 5120 square incl</li></ul>	hes, h	ow many nev	v tiles will l	ne need?	
		Answer: a in. by in	. b.	t	iles		٠
**	8.	Tidal waves can travel very fast. Their speed function: $s = 2\sqrt{d}$ , where speed (s) is in mph					
		a. Make and graph ordered pairs (d, s) for each of the multiples of 100 shown on the horizontal axis of the graph.		80 70 60	+-+	<del></del>	+
		b. Connect the points with a curve.	s Speed in mph	50 40 30 20			-
				10 111	200 300 400	500 600 700 8	<u> </u>
				0 100 2	d Water dep		
*	9	. What is the probability of drawing a card from letter of a day of the week?	om thc	ose pictured v	where the lett	er is the first	
		N O P R S	Т	-]		•	
				Answer			