After Test Assignment

this will count as the first assignment for the next Unit.

1	2	8
1	¥	1
ı	1	
1		Ι

Find the missing terms of the sequence and write a sequence formula in both $zero\ term$ and $first\ term$ format.

a) _____, ____, 125, _____, (hint: the multiplier is 1.25)

first term format: $t_n =$ _____ zero term format: $t_n =$ ____

4000, 1000, 250, ____, ___,

first term format: $t_n =$ _____ zero term format: $t_n =$ _____



Several customers at a fancy restaurant were reporting food poisening. A biologist named Tina was recording bacteria growth on the cooking surfaces. She is trying to predict the amount of bacteria after 20 hours. Unfortunately she lost the count after the first hour and forgot to record count at six hours.

a) Determine the missing counts.

b)	Write a sequence formula, using the	
•	notation, " t_n =" that models the growth	
	after <i>n</i> hours.	

c)	Use your formula to calculate the predicted bacteria counts after 20 hours
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hours	# bacteria
1	
2	10
3	25
4	62.5
5	156.25
6	

Challenge:

Determine a formula for the geometric sequence:

n	t _n	
f		
2	68	
3		
4	786.08	
5		