Name	Period				
HW 3-1 Part 2 Writing Basic Exponential Equations					
1. You are observing bacteria. You have 270 to start with and					
	they half every day. Write an equation that would calculate				

2. Your plant is 2 inches tall right now. It grows 7 inches per week. Write an equation that would correctly calculate how long it will be in *x* weeks.

how many bacteria you will have after x weeks.

- 3. Write an expression that would show a flower population starting with 1 flower, doubling 3 times? (You do not need to solve)
- 4. A certain worm grows 1.5 inches per month. If it is four inches long now, write an equation to show how long it will be after *x* months.

a) How long will it be after 4 months?

5. You invest 5 dollars in a company that promises to quadruple your money every year. How much money will you have after 7 years?

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b)How long will it be after 4 months?

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- 6. You raise silkworms. You have 6 to start with and they triple every month. Write an equation that would calculate how many silkworms you will have after *x* months.
- a) How many will you have after 6 months?

7. Write an expression that would show a rabbit population starting with 8 rabbits, doubling three times? (You do not need to solve)

8. Your hair is 30 cm long right now. It grows 1 cm per week. Write an equation to show how long it will be after x weeks.

9. A certain plant quadruples its height every month. If it is 3 inches tall when planted, how tall is it after 4 months?

y = 1.5x + 4	$y = 6 \cdot 3^x$	$y = 270 \cdot \frac{1^x}{2}$	10
y = 2 + 7x	$y = 8 \cdot 2^3$	y = 30 + x	$y = 1(3)^3$
768	4374	81920	

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