Writing Exponential Equations

Name	Class Period	
Write an equation for each problem to help you answer the question.		
 A bacteria population doubles every hou bacteria will there be in 48 hours? 	ur. The Petri dish starts with 10 bacteria, how many	
_	ach year with 64 teams. After each round a team is as by half. How many teams are left after 3 rounds?	
3. A type of insect doubles every 12 hours. 1 insects will you have in 3 days?	The population starts with 16 insects. How many	
	the time it takes for half of the substance to decay. 06, is about 30 seconds. If you start with 100 grams of utes?	

5.	If you end with 1920 bacteria in a petri dish and the population doubled every hour, how many bacteria did you start with 6 hours ago?
6.	An investment doubles in value every 9 years. What was the starting value of the investment if it is worth \$4,800 after 27 years?
7.	The house down the street has a termite problem. The exterminator estimates that there are about 800,000 termites. The pesticide they use to kill the termites kills about half the termites each day. How many termites are left after:
	a. 2 days
	b. 3 weeks
8.	A 5 th grade class is raising meal worms for an experiment. They start with 10 meal worms. The population triples every 8 hours. How many meal worms does the class have after 72 hours?