HOMEWORK QUIZ – Exponential Modeling		HOMEWORK QUIZ – Exponential Modeling			
Name		Na	Name		
Date:	Form A	Da	te:	Form B	
	= $4.3 (1.08)^t$ a growth or nat is the constant percentage	1.	Is the function $f(x) = 542 (0.201)$ or decay function? What is the copercentage rate?		
	tial function with initial decreasing at a rate of	2.	Write the exponential function w height of 45 in., growing at a rate per year.		
was 6500. The po	Smallville in the year 1990 opulation increased at a rate stimate the population in	3.	The half-life of a radioactive subs 24 days. There are 8.5 grams pre When will there be less than 2 gra	sent initially.	
Grade:		Gr	ade:		

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	Is the function $g(t) = 59 (1.25)^t$ a growth or decay function? What is the constant percentage rate?		<b>1.</b> Is the function $f(x) = 623 (0.45)^x$ a growth or decay function? What is the constant percentage rate?		
2.	Write the exponential function with initial mass of 12 lbs., doubling every four days.		2. Write the exponential function with initial height of 42 in., growing at a rate of 4% per year.		
3.	The half-life of a radioactive substance is 64 days. There are 3.5 grams present initially. When will there be less than 1 gram remaining?		3. The half-life of a radioactive substance is 22 days. There are 12.5 grams present initially. When will there be less than 4 grams remaining?		
Grade:			Grade:		