Name		Date	Class
	Practice B		
	Exponential Decay		
find the	e value of the function after	•	en
	e population of a town is 2500 3% per year; 5 years	and is decreasing at a rate	
	e value of a company's equipo a rate of 15% per year; 8 year	ment is \$25,000 and decreases s	
	e half-life of lodine-131 is app ount of lodine-131 left from a	proximately 8 days. Find the 35 gram sample after 32 days.	
	Problem Solving	and Daggy	
Write t	Exponential Growth a he correct answer.	and Decay	
4. The of 1	e population of a small Midwe	stern town is 4500. The populati nential decay function to model t er 25 years.	
		oonsors a tennis tournament. Play eliminated. How many players re	
ex	ponential decay model for the a	2% of the air in the lungs is replace amount of the original air left in the the original air is present after 240	e lungs if the initial amount of air
	dult takes 400 mg of ibuprofen. Ea bout 29%. How much ibuprofen is	ach hour, the amount of ibuprofen in left after 6 hours?	the person's system decreases

Name .	ame Date Clas	s
	10. You buy a new computer for \$2100. The computer decreases by 50% annually. Whe have a value of \$600?	n will the computer
	11. You drink a beverage with 120 mg of caffeine. Each hour, the caffeine in your system 12%. How long until you have 10mg of caffeine?	n decreases by about
1. A	 An isotope of cesium (cesium-137) has a half-life of 30 years. If 1.0 g of cesium-137 would remain the state of the state	cesium-137 main?
2. A peri	2. Actinium-226 has a half-life of 29 hours. If 100 mg of actinium-226 disi period of 58 hours, how many mg of actinium-226 will remain?	ntegrates over a