

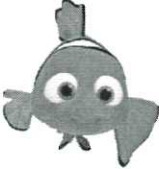


Question	Exponential Growth or Decay?	Write a function that represents this situation	Answer:
<p>1. You buy a house for \$130,000. It appreciates 6% per year. How much is it worth in 10 years?</p> 		<p><b>Initial Amount =</b></p> <p><b>Growth/Decay Rate:</b></p> <p>Percent = _____ Decimal = _____</p> <p>Function that represents this situation:</p>	
<p>2. Mr. MD is losing 20% of his hair each year 😊 If he currently has 1,546 hairs on his head, about how many hairs will he have left after 10 years?</p> 		<p><b>Initial Amount =</b></p> <p><b>Growth/Decay Rate:</b></p> <p>Percent = _____ Decimal = _____</p> <p>Function that represents this situation:</p>	
<p>3. If you invest \$40 in an account for 10 years at a 3% interest rate how much money will you have?</p>		<p><b>Initial Amount =</b></p> <p><b>Growth/Decay Rate:</b></p> <p>Percent = _____ Decimal = _____</p> <p>Function that represents this situation:</p>	
<p>4. A population of 100 frogs increases at an annual rate of 22%. How many frogs will there be in 5 years?</p>		<p><b>Initial Amount =</b></p> <p><b>Growth/Decay Rate:</b></p> <p>Percent = _____ Decimal = _____</p> <p>Function that represents this situation:</p>	

<p>5. A species of extremely rare, deep water fish are slowly becoming extinct. If there are a total 821 of this type of fish and there are 15% fewer fish each month, how many will there be in half a year?</p> 		<p><b>Initial Amount =</b></p> <hr/> <p><b>Growth/Decay Rate:</b></p> <p>Percent = _____ Decimal = _____</p> <p>Function that represents this situation:</p>	
<p>6. The population of Austin is growing at a rate of 5% per year. In 2010, the population was 500,000. What would be the predicted current population?</p>		<p><b>Initial Amount =</b></p> <hr/> <p><b>Growth/Decay Rate:</b></p> <p>Percent = _____ Decimal = _____</p> <p>Function that represents this situation:</p>	
<p>8. A mouse population is 25,000 and is decreasing in size at a rate of 20% per year. What is the mouse population after 3 years?</p>		<p><b>Initial Amount =</b></p> <hr/> <p><b>Growth/Decay Rate:</b></p> <p>Percent = _____ Decimal = _____</p> <p>Function that represents this situation:</p>	