

mobius

Exponential Function Decay (Discrete) -Equation and Scenario to Specific Value



1	What is the final concentration in this equation for a
	decline of a toxin concentration (daily dialysis)?

What is the time in this equation for a decline of a bird population (yearly breeding cycle)?

$$220 = 300 \cdot (1 - 0.06)^{(5)}$$

$$220 = 300 \cdot (1 - 0.06)^{(5)} 554 = 800 \cdot (1 - 0.04)^{(9)}$$

Α	C=6	В	C = 220	А
С	C=5			-

$$\stackrel{\scriptscriptstyle{\wedge}}{t}=$$
 800 $\stackrel{\scriptscriptstyle{\circ}}{t}=$ 9 $\stackrel{\scriptscriptstyle{\circ}}{t}=$ 554

3 What is the final population in this equation for a decline of a whale population (yearly breeding cycle)?

What is the final population in this equation for a decline of a whale population (yearly breeding cycle)?

$$796 = 900 \cdot (1 - 0.04)^{(3)}$$

$$796 = 900 \cdot (1 - 0.04)^{(3)} 629 = 900 \cdot (1 - 0.05)^{(7)}$$

$$\hat{P}=900|\hat{P}=796$$

$$P = 796$$

A
$$P=7$$
 B $P=629$

$$P=5$$

5 What is the time in this equation for a decline of a whale population (yearly breeding cycle)?

What is the final concentration in this equation for a decline of a toxin concentration (weekly dialysis)?

$$508 = 600 \cdot (1 - 0.08)^{(2)}$$

$$508 = 600 \cdot (1 - 0.08)^{(2)} 722 = 800 \cdot (1 - 0.05)^{(2)}$$

$$t=2$$
 $t=600$ $t=507$

A
$$C=2$$
 B $C=800$

7 What is the rate in this equation for a decline of a whale population (yearly breeding cycle)?

What is the starting cash in this equation for a balance of a charitable endowment (daily disbursements)?

$$|340 = 400 \cdot (1 - 0.02)^{(8)}|565 = 600 \cdot (1 - 0.02)^{(3)}$$

$$565 = 600 \cdot (1 - 0.02)^{(3)}$$

Α	r= 340%	В	r= 400%	А	$P_0 = 3$	В	$P_0 = 600$
С	r=2%			С	$P_0 = 2$	D	$P_0 = 564$