Name

Exponential Function Solving - Decay (Discrete) Equation to Starting Value

1 What is the value of the starting concentration given this model of a decline of a toxin concentration (daily dialysis)?

$$403 = C_0 \cdot (1 - 0.03)^{(7)}$$

A	$C_0 = 500$	B	$C_0 = 700$
C	$C_0 = 300$	D	$C_0 = 800$

2 What is the value of the starting population given this model of a decline of a whale population (yearly breeding cycle)?

$$333 = P_0 \cdot (1 - 0.02)^{(9)}$$

A	$P_0 = 400$	B	$P_0 = 500$
C	$P_0 = 100$	D	$P_0 = 600$

3 What is the value of the starting population given this model of a decline of a whale population (yearly breeding cycle)?

$$796 = P_0 \cdot (1 - 0.03)^{(4)}$$

A	$P_0 = 800$	B	$P_0 = 600$
C	$P_0 = 900$	D	$P_0 = 1100$

4 What is the value of the starting population given this model of a decline of a bird population (yearly breeding cycle)?

$$144 = P_0 \cdot (1 - 0.04)^{(8)}$$

A	$P_0 = 300$	B	$P_0 = 100$
C	$P_0 = 200$	D	$P_0 = 400$

5 What is the value of the starting concentration given this model of a decline of a toxin concentration (daily dialysis)?

$$645 = C_0 \cdot (1 - 0.04)^{(2)}$$

A	$C_0 = 500$	B	$C_0 = 700$
C	$C_0 = 900$	D	$C_0 = 1000$

6 What is the value of the starting population given this model of a decline of a whale population (yearly breeding cycle)?

$$631 = P_0 \cdot (1 - 0.05)^{(2)}$$

A	$P_0 = 1000$	B	$P_0 = 700$
C	$P_0 = 600$	D	$P_0 = 500$

7 What is the value of the starting population given this model of a decline of a whale population (yearly breeding cycle)?

$$797 = P_0 \cdot (1 - 0.02)^{(6)}$$

A	$P_0 = 1100$	B	$P_0 = 800$
C	$P_0 = 600$	D	$P_0 = 900$

8 What is the value of the starting population given this model of a decline of a whale population (yearly breeding cycle)?

$$556 = P_0 \cdot (1 - 0.07)^{(5)}$$

A	$P_0 = 900$	B	$P_0 = 500$
C	$P_0 = 800$	D	$P_0 = 1000$