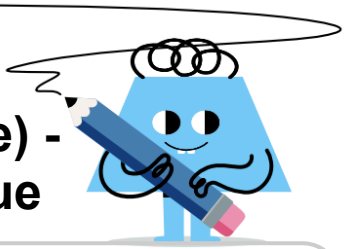
Name

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



1 What is the final cash in this equation for a quarterly compounding growth of money in a savings account?

$$886 = 700 \cdot (1 + 0.04)^{(6)}$$

A	$P = 6$	B	$P = 886$
C	$P = 700$		

2 What is the time in this equation for a monthly compounding growth of money in a savings account?

$$591 = 400 \cdot (1 + 0.05)^{(8)}$$

A $t = 8$	B $t = 400$

3 What is the time in this equation for a quarterly compounding growth of money in a savings account?

$$914 = 500 \cdot (1 + 0.09)^{(7)}$$

A $t = 7$	B $t = 914$	C $t = 500$

4 What is the starting debt in this equation for a growth in credit card debt with monthly interest?

$$598 = 500 \cdot (1 + 0.02)^{(9)}$$

A	$D_0 = 2$	B	$D_0 = 9$
C	$D_0 = 500$		

5 What is the rate in this equation for a growth of a rabbit population (yearly breeding cycle)?

$$238 = 200 \cdot (1 + 0.06)^{(3)}$$

A	$r = 238\%$	B	$r = 200\%$
C	$r = 6\%$		

6 What is the time in this equation for a growth of an insect population that breeds once per year?

$$476 = 400 \cdot (1 + 0.06)^{(3)}$$

A $t = 400$	B $t = 3$

7 What is the starting population in this equation for a growth of an insect population that breeds once per year?

$$735 = 400 \cdot (1 + 0.07)^{(9)}$$

A	$P_0 = 735$	B	$P_0 = 400$
C	$P_0 = 9$		

8 What is the starting population in this equation for a growth of an insect population that breeds once per year?

$$600 = 300 \cdot (1 + 0.08)^{(9)}$$

A	$P_0 = 9$	B	$P_0 = 599$
C	$P_0 = 300$		