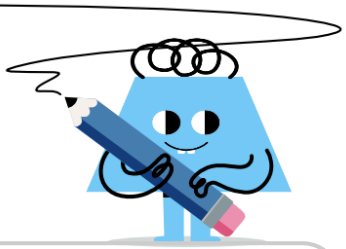
Name

Exponential Function Solving - Decay (Discrete, Mis-matched Time Units) Equation to Value at Time



1 Solve for the final cash given this model of a balance of a charitable endowment (monthly disbursements)?

$$P = 300 \cdot (1 - 0.05)^{(8 \cdot 12)}$$

A	$P = P_0 \cdot (1 - r)^{(t \cdot 12)}$	B	$P = \frac{P_0}{(1 - r)^{(t \cdot 12)}}$
C	$P = P_0 \cdot (1 + r)^{(\frac{t}{12})}$		

2 Solve for the final cash given this model of a balance of a charitable endowment (monthly disbursements)?

$$P = 200 \cdot (1 - 0.09)^{(3 \cdot 12)}$$

A	$P = P_0 \cdot (1 - r)^{(t \cdot 12)}$
B	$P = P_0 \cdot (1 + r)^{(\frac{t}{12})}$

3 Solve for the final concentration given this model of a decline of a toxin concentration (hourly dialysis)?

$$C = 300 \cdot (1 - 0.06)^{(4 \cdot 24)}$$

A	$C = C_0 \cdot (1 + r)^{(\frac{t}{24})}$
B	$C = C_0 \cdot (1 - r)^{(t \cdot 24)}$

4 Solve for the final cash given this model of a balance of a charitable endowment (yearly disbursements)?

$$P = 200 \cdot (1 - 0.05)^{(\frac{1095}{365})}$$

A	$P = \frac{P_0}{(1 - r)^{(\frac{t}{365})}}$	B	$P = P_0 \cdot (1 - r)^{(\frac{t}{365})}$
C	$P = P_0 \cdot (1 + r)^{(t \cdot 365)}$		

5 Solve for the final cash given this model of a balance of a charitable endowment (yearly disbursements)?

$$P = 600 \cdot (1 - 0.08)^{(\frac{84}{12})}$$

A	$P = P_0 \cdot (1 - r)^{(\frac{t}{12})}$	B	$P = \frac{P_0}{(1 - r)^{(\frac{t}{12})}}$
C	$P = P_0 \cdot (1 + r)^{(t \cdot 12)}$		

6 Solve for the final concentration given this model of a decline of a toxin concentration (daily dialysis)?

$$C = 900 \cdot (1 - 0.05)^{(2 \cdot 7)}$$

A	$C = \frac{C_0}{(1 - r)^{(t \cdot 7)}}$	B	$C = C_0 \cdot (1 - r)^{(t \cdot 7)}$
C	$C = C_0 \cdot (1 + r)^{(\frac{t}{7})}$		

7 Solve for the final cash given this model of a balance of a charitable endowment (weekly disbursements)?

$$P = 500 \cdot (1 - 0.08)^{(\frac{42}{7})}$$

A	$P = \frac{P_0}{(1 - r)^{(\frac{t}{7})}}$
B	$P = P_0 \cdot (1 - r)^{(\frac{t}{7})}$

8 Solve for the final concentration given this model of a decline of a toxin concentration (daily dialysis)?

$$C = 700 \cdot (1 - 0.04)^{(\frac{144}{24})}$$

A	$C = \frac{C_0}{(1 - r)^{(\frac{t}{24})}}$	B	$C = C_0 \cdot (1 - r)^{(\frac{t}{24})}$
C	$C = C_0 \cdot (1 + r)^{(t \cdot 24)}$		