Name

Exponential Function Decay (Discrete) - Term to Meaning

1 What does this term represent in a model of balance of a charitable endowment (yearly disbursements)?

$$P = P_0 \cdot (1-r)^{(t)}$$
$$P_0 = ?$$

A P_0 = rate

B P_0 = final cash

C P_0 = starting cash

2 What does this term represent in a model of decline of a whale population (yearly breeding cycle)?

$$P = P_0 \cdot (1-r)^{(t)}$$
$$r = ?$$

A r = starting population

B r = time

C r = rate

3 What does this term represent in a model of decline of a bird population (yearly breeding cycle)?

$$P = P_0 \cdot (1-r)^{(t)}$$
$$P = ?$$

A P = starting population

B P = final population

4 What does this term represent in a model of decline of a toxin concentration (hourly dialysis)?

$$C = C_0 \cdot (1-r)^{(t)}$$
$$t = ?$$

A t = starting concentration

B t = time

C t = rate

5 What does this term represent in a model of decline of a toxin concentration (hourly dialysis)?

$$C = C_0 \cdot (1-r)^{(t)}$$
$$C = ?$$

A C = starting concentration

B C = time

C C = final concentration

6 What does this term represent in a model of balance of a charitable endowment (weekly disbursements)?

$$P = P_0 \cdot (1-r)^{(t)}$$
$$t = ?$$

A t = final cash

B t = starting cash

C t = time

D t = rate

7 What does this term represent in a model of decline of a toxin concentration (monthly dialysis)?

$$C = C_0 \cdot (1-r)^{(t)}$$
$$C_0 = ?$$

A C_0 = final concentration

B C_0 = time

C C_0 = starting concentration

8 What does this term represent in a model of decline of a toxin concentration (monthly dialysis)?

$$C = C_0 \cdot (1-r)^{(t)}$$
$$r = ?$$

A r = final concentration

B r = time

C r = rate