mobius

Exponential Function Growth (Continuous) - Meaning to Term

1 In this model of continuous growth of a rabbit population, which term represents the final population?
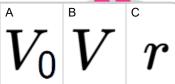
$$P = P_0 \cdot e^{(r \cdot t)}$$

final population =?

A	B	C
P	r	t

2 In this model of continuous exponential growth of social media post views, which term represents the rate?

$$V = V_0 \cdot e^{(r \cdot t)}$$

rate =?

A	B	C
V_0	V	r

3 In this model of continuously compounding growth of app downloads, which term represents the starting downloads?

$$A = A_0 \cdot e^{(r \cdot t)}$$

starting downloads =?

A	B	C	D
t	A_0	A	r

4 In this model of continuously compounding growth of money in a savings account, which term represents the final cash?

$$P = P_0 \cdot e^{(r \cdot t)}$$

final cash =?

A	B	C
r	P	P_0

5

$$P = P_0 \cdot e^{(r \cdot t)}$$

starting population =?

In this model of continuous growth of a rabbit population, which term represents the starting population?

A	B
P	P_0

6

$$P = P_0 \cdot e^{(r \cdot t)}$$

rate =?

In this model of continuous growth of a bacteria population, which term represents the rate?

A	B
r	t

7 In this model of continuously compounding growth of a share price, which term represents the final price?

$$S = S_0 \cdot e^{(r \cdot t)}$$

final price =?

A	B	C
r	t	S
D		
S_0		

8 In this model of continuously compounding growth of a share price, which term represents the starting price?

$$S = S_0 \cdot e^{(r \cdot t)}$$

starting price =?

A	B	C
t	S_0	S