



Exponential Function Solving - Growth (Continuous) Scenario to Value at Time

1

What is the value of the final population given this scenario?

A rabbit population starts at 500. It grows continuously at 8% growth per year. After 9 years it has increased to a certain population.

$$^A P = 1,027 \quad ^B P = 790$$

$$^C P = 1,130 \quad ^D P = 700$$

2

What is the value of the final population given this scenario?

An insect population starts at 500. It grows continuously at 6% growth per day. After 4 days it has increased to a certain population.

$$^A P = 430 \quad ^B P = 880$$

$$^C P = 590 \quad ^D P = 635$$

3

What is the value of the final population given this scenario?

A rabbit population starts at 800. It grows continuously at 4% growth per quarter. After 5 quarters it has increased to a certain population.

$$^A P = 795 \quad ^B P = 1,175$$

$$^C P = 1,405 \quad ^D P = 977$$

4

What is the value of the final downloads given this scenario?

An app starts with 300 downloads. Its download count grows continually by 4% each year. After 6 years it has a larger number of downloads.

$$^A A = 270 \quad ^B A = 250$$

$$^C A = 381 \quad ^D A = 285$$

5

What is the value of the final downloads given this scenario?

An app starts with 900 downloads. Its download count grows continually by 6% each month. After 7 months it has a larger number of downloads.

$$^A A = 910 \quad ^B A = 1,830$$

$$^C A = 1,369 \quad ^D A = 1,140$$

6

What is the value of the final population given this scenario?

An insect population starts at 500. It grows continuously at 3% growth per day. After 8 days it has increased to a certain population.

$$^A P = 740 \quad ^B P = 780$$

$$^C P = 635 \quad ^D P = 610$$

7

What is the value of the final population given this scenario?

A rabbit population starts at 300. It grows continuously at 9% growth per quarter. After 2 quarters it has increased to a certain population.

$$^A P = 359 \quad ^B P = 240$$

$$^C P = 495 \quad ^D P = 235$$

8

What is the value of the final population given this scenario?

A rabbit population starts at 300. It grows continuously at 4% growth per year. After 8 years it has increased to a certain population.

$$^A P = 535 \quad ^B P = 345$$

$$^C P = 413 \quad ^D P = 445$$