



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

1

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

An insect population starts at 200. Each subsequent yearly breeding season it grows by 4%. After 9 years it has increased to a certain population.

^A $P = 350$	^B $P = 284$
^C $P = 230$	^D $P = 355$

2

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

A credit card starts with \$900 of debt. Each subsequent quarter it grows by 7% in interest. After 5 quarters the debt has grown to a certain amount.

^A $D = 1,490$	^B $D = 1,400$
^C $D = 1,720$	^D $D = 1,262$

3

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

An insect population starts at 300. Each subsequent yearly breeding season it grows by 8%. After 7 years it has increased to a certain population.

^A $P = 665$	^B $P = 530$
^C $P = 610$	^D $P = 514$

4

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

A rabbit population starts at 500. Each subsequent yearly breeding season it grows by 7%. After 6 years it has increased to a certain population.

^A $P = 975$	^B $P = 750$
^C $P = 460$	^D $P = 840$

5

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

A rabbit population starts at 600. Each subsequent yearly breeding season it grows by 8%. After 5 years it has increased to a certain population.

^A $P = 881$	^B $P = 885$
^C $P = 1,265$	^D $P = 1,065$

6

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

A rabbit population starts at 300. Each subsequent yearly breeding season it grows by 9%. After 5 years it has increased to a certain population.

^A $P = 580$	^B $P = 461$
^C $P = 525$	^D $P = 665$

7

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

A credit card starts with \$200 of debt. Each subsequent year it grows by 9% in interest. After 4 years the debt has grown to a certain amount.

^A $D = 365$	^B $D = 345$
^C $D = 260$	^D $D = 282$

8

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

An insect population starts at 200. Each subsequent yearly breeding season it grows by 6%. After 4 years it has increased to a certain population.

^A $P = 235$	^B $P = 252$
^C $P = 210$	^D $P = 215$