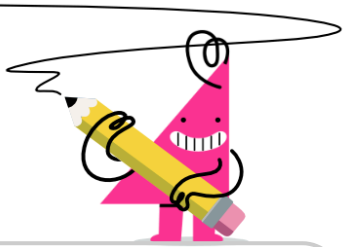
Name



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

1

A whale population starts at 700. Each subsequent year it declines by 9%. After 8 years it has decreased to a certain population.

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

A $P = 330$	B $P = 329$
C $P = 465$	D $P = 285$

2

A bird population starts at 700. Each subsequent year it declines by 4%. After 2 years it has decreased to a certain population.

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

A $P = 645$	B $P = 530$
C $P = 955$	D $P = 815$

3

A bird population starts at 400. Each subsequent year it declines by 7%. After 8 years it has decreased to a certain population.

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

A $P = 140$	B $P = 223$
C $P = 135$	D $P = 225$

4

A bird population starts at 600. Each subsequent year it declines by 5%. After 9 years it has decreased to a certain population.

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

A $P = 378$	B $P = 405$
C $P = 295$	D $P = 470$

5

A bird population starts at 200. Each subsequent year it declines by 3%. After 4 years it has decreased to a certain population.

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

A $P = 135$	B $P = 130$
C $P = 177$	D $P = 225$

6

A whale population starts at 400. Each subsequent year it declines by 7%. After 2 years it has decreased to a certain population.

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

A $P = 495$	B $P = 345$
C $P = 405$	D $P = 485$

7

A charitable endowment starts with $900. Each weekly it disburses 7% of its remaining funds. After 8 weeks its funds have decreased to a certain amount.

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

A $P = 585$	B $P = 503$
C $P = 305$	D $P = 540$

8

A whale population starts at 400. Each subsequent year it declines by 3%. After 9 years it has decreased to a certain population.

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

A $P = 420$	B $P = 304$
C $P = 265$	D $P = 200$