

Write an exponential function for each word problem below. Define your variable.

7.) A wildlife manager in Yellowstone National Park determines there are approximately 200 moose in the park. If the population is growing at a rate 7% each year, how many moose will live in the park after 4 years? If the carrying capacity of this park is 350 moose, how long will it take for the moose population to reach carrying capacity?

$x$  = years since  
data  
 $y$  = moose  
population

$$y = 200(1.07)^x$$

≈ 262 moose

After 8 years the  
park will reach capacity

8.) A business purchases a computer system for \$3000. If the value of the system decreases at a rate of 15% per year, how much is the computer worth after 4 years? When will the computer system be worth nothing?

$x$  = years  
 $y$  = computer  
value

$$y = 3000(0.85)^x$$

≈ \$1566.02

After 12 years the  
system is worth nothing.

9.) A Fisheries manager determines that there are approximately 4500 salmon in Lake Washington during the high season. A scientist informs the manager that the population is decreasing at a rate of about 2% per year. How many salmon will live in the lake after 5 years? About how long will it be before the salmon are not in the lake at all?

$x$  = years  
 $y$  = salmon  
population

$$y = 4500(0.98)^x$$

≈ 4067 salmon

After 417 years the  
salmon will be extinct

10.) Starbucks earned approximately \$10.7 billion in 2017 and grows at an approximate rate of 4% per year. If this trend continued, what would Starbucks expect to be its annual revenue in 2030?

$x$  = years since  
2017

$$y = 10.7(1.04)^x$$

≈ \$17.8 billion

$y$  = revenue

11.) A local animal rescue league is trying to reduce the number of stray dogs in their city. They estimate that there are currently about 400 stray dogs and that they can place about 8% of the animals each month in a home. How many stray dogs will remain in the city in 2 years?

$x$  = months  
 $y$  = dogs

$$y = 400(0.92)^x$$

54 dogs

# Lesson 13 Exponential Growth And Decay Answers

**Mark Zegarelli**



## **Lesson 13 Exponential Growth And Decay Answers:**

## Whispering the Strategies of Language: An Mental Journey through **Lesson 13 Exponential Growth And Decay Answers**

In a digitally-driven world wherever monitors reign supreme and instant interaction drowns out the subtleties of language, the profound secrets and mental subtleties concealed within words often move unheard. However, located within the pages of **Lesson 13 Exponential Growth And Decay Answers** a captivating literary treasure pulsating with organic feelings, lies a fantastic journey waiting to be undertaken. Composed by an experienced wordsmith, this enchanting opus attracts viewers on an introspective journey, gently unraveling the veiled truths and profound impact resonating within ab muscles material of every word. Within the mental depths of this moving review, we shall embark upon a honest exploration of the book is core styles, dissect their charming writing type, and yield to the strong resonance it evokes serious within the recesses of readers hearts.

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