

## Exponential Growth and Decay Word Problems

Name: \_\_\_\_\_ Pd: \_\_\_\_\_ Date: \_\_\_\_\_

1. The world population in 2000 was approximately 6.08 billion. The annual rate of increase was about 1.26%.
  - a. Find the growth factor for the world population.
  - b. Suppose the rate of increase continues to be 1.26%. Write a function to model the world population
  - c. Let  $x$  be the number of years past the year 2000. Find the world population in 2010.
  
2. A computer valued at \$6500 depreciates at the rate of 14.3% per year.
  - a. Write a function that models the value of the computer.
  
  - b. Find the value of the computer after three years.
  
3. The population of a certain animal species decreases at a rate of 3.5% per year. You have counted 80 of the animals in the habitat you are studying.
  - a. Write a function that models the change in the animal population.
  
  - b. Graph the function. Estimate the number of years until the population first drops below 15 animals

# Exponential Growth And Decay Word Problems Answers

**R Barnett**



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