

## **Exponential Growth and Decay Word Problems**

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
4. Write an exponential function to model each situation. Find the value of each function after five years.
  - a. A \$12,500 car depreciates 9% each year
  - b. A baseball card bought for \$50 increases 3% in value each year.

# Exponential Growth And Decay Word Problems Worksheet Answers

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## **Table of Contents Exponential Growth And Decay Word Problems Worksheet Answers**

1. Understanding the eBook Exponential Growth And Decay Word Problems Worksheet Answers
  - The Rise of Digital Reading Exponential Growth And Decay Word Problems Worksheet Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Exponential Growth And Decay Word Problems Worksheet Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Exponential Growth And Decay Word Problems Worksheet Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Exponential Growth And Decay Word Problems Worksheet Answers
  - Personalized Recommendations

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- Exponential Growth And Decay Word Problems Worksheet Answers User Reviews and Ratings
- Exponential Growth And Decay Word Problems Worksheet Answers and Bestseller Lists
- 5. Accessing Exponential Growth And Decay Word Problems Worksheet Answers Free and Paid eBooks
  - Exponential Growth And Decay Word Problems Worksheet Answers Public Domain eBooks
  - Exponential Growth And Decay Word Problems Worksheet Answers eBook Subscription Services
  - Exponential Growth And Decay Word Problems Worksheet Answers Budget-Friendly Options
- 6. Navigating Exponential Growth And Decay Word Problems Worksheet Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Exponential Growth And Decay Word Problems Worksheet Answers Compatibility with Devices
  - Exponential Growth And Decay Word Problems Worksheet Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Exponential Growth And Decay Word Problems Worksheet Answers
  - Highlighting and Note-Taking Exponential Growth And Decay Word Problems Worksheet Answers
  - Interactive Elements Exponential Growth And Decay Word Problems Worksheet Answers
- 8. Staying Engaged with Exponential Growth And Decay Word Problems Worksheet Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Exponential Growth And Decay Word Problems Worksheet Answers
- 9. Balancing eBooks and Physical Books Exponential Growth And Decay Word Problems Worksheet Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Exponential Growth And Decay Word Problems Worksheet Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Exponential Growth And Decay Word Problems Worksheet Answers
  - Setting Reading Goals Exponential Growth And Decay Word Problems Worksheet Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Exponential Growth And Decay Word Problems Worksheet Answers
  - Fact-Checking eBook Content of Exponential Growth And Decay Word Problems Worksheet Answers

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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