

Exponential Growth and Decay

Date _____ Period _____

Solve each exponential growth/decay problem.

- 1) For a period of time, an island's population grows at a rate proportional to its population. If the growth rate is 3.8% per year and the current population is 1543, what will the population be 5.2 years from now?
- 2) During the exponential phase, *E. coli* bacteria in a culture increase in number at a rate proportional to the current population. If the growth rate is 1.9% per minute and the current population is 172.0 million, what will the population be 7.2 minutes from now?
- 3) Radioactive isotope Carbon-14 decays at a rate proportional to the amount present. If the decay rate is 12.10% per thousand years and the current mass is 135.2 mg, what will the mass be 2.2 thousand years from now?
- 4) A savings account balance is compounded continuously. If the interest rate is 3.1% per year and the current balance is \$1077.00, in how many years will the balance reach \$1486.73?

1) For a period of time, an island's population grows at a rate proportional to its population. If the growth rate is 3.8% per year and the current population is 1543, what will the population be 5.2 years from now?

2) During the exponential phase, *E. coli* bacteria in a culture increase in number at a rate proportional to the current population. If the growth rate is 1.9% per minute and the current population is 172.0 million, what will the population be 7.2 minutes from now?

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Guillaume Favre



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Table of Contents Percent Growth And Decay Precal Work Sheet

1. Understanding the eBook Percent Growth And Decay Precal Work Sheet
 - The Rise of Digital Reading Percent Growth And Decay Precal Work Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Percent Growth And Decay Precal Work Sheet
 - 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 Percent Growth And Decay Precal Work Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Percent Growth And Decay Precal Work Sheet
 - Personalized Recommendations
 - Percent Growth And Decay Precal Work Sheet User Reviews and Ratings
 - Percent Growth And Decay Precal Work Sheet and Bestseller Lists
5. Accessing Percent Growth And Decay Precal Work Sheet Free and Paid eBooks

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