Exponential Growth and Decay Word Problems

1. Find a bank account balance if the account starts with $100, has an annual rate of 4%, and the money left in the account for 12 years.

$$A = 100(1+.04)^{12} = \boxed{\$160.10}$$

2. In 1985, there were 285 cell phone subscribers in the small town of Centerville. The number of subscribers increased by 75% per year after 1985. How many cell phone subscribers were in Centerville in 1994?

'85 = 0
'94 = 9

$$y = 285(1.75)^t \;\; ; \text{ when } t = 9 \quad y = \boxed{43,872 \text{ subscribers}}$$

3. Bacteria can multiply at an alarming rate when each bacteria splits into two new cells, thus doubling. If we start with only one bacteria which can double every hour, how many bacteria will we have by the end of one day?

t	y
0	1
1	2
2	4
3	8

$$y = 2^t \qquad y = 2^{24} = \boxed{16,777,216 \text{ bacteria}}$$

4. Each year the local country club sponsors a tennis tournament. Play starts with 128 participants. During each round, half of the players are eliminated. How many players remain after 5 rounds?

$$y = 128(.5)^t \qquad y = 128(.5)^5 = \boxed{4 \text{ players}}$$

5. The population of Winnemucca, Nevada, can be modeled by $P=6191(1.04)^t$ where t is the number of years since 1990. What was the population in 1990? By what percent did the population increase by each year?

$$\boxed{P = 6191} \text{ in } 1990 \qquad \boxed{r = 4\%}$$
(initial amt)

6. You have inherited land that was purchased for $30,000 in 1960. The value of the land increased by approximately 5% per year. What is the approximate value of the land in the year 2011?

1960 = 0
2011 = 51

$$y = 3000(1.05)^t \qquad \text{at } t = 51, \quad y = \boxed{\$361,223.09}$$

7. During normal breathing, about 12% of the air in the lungs is replaced after one breath. Write an exponential decay model for the amount of the original air left in the lungs if the initial amount of air in the lungs is 500 mL. How much of the original air is present after 240 breaths?

$$y = 500(1-.12)^t$$
$$\boxed{y = 500(.88)^t}$$
t = # breaths

$$y = 500(.88)^{240}$$
$$\boxed{y = .0000000034\%}$$
or $y = 2.4 \times 10^{-11}$ mL

Practice 8 8 Exponential Growth And Decay Answer Key

RJ Shavelson

Practice 8 8 Exponential Growth And Decay Answer Key:

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the University of Vermont Ms Rosebush has taught mathematics to elementary middle school high school and college students She taught AP Calculus via satellite television to high school students scattered throughout Vermont Ms Rosebush earned her B A degree in elementary education with a concentration in mathematics at the University of New York in Cortland N Y She received her Master s Degree in education from Saint Michael s College Colchester Vermont Flavia Banu graduated from Queens College of the City University of New York with a B A in Pure Mathematics and an M A in Pure Mathematics in 1997 Ms Banu was an adjunct professor at Queens College where she taught Algebra and Calculus II Currently she teaches mathematics at Bayside High School in Bayside New York and coaches the math team for the school Her favorite course to teach is AP Calculus because it requires the most discipline rigor and creativity About Our Revisions Editor Stu Schwartz has been teaching mathematics since 1973 For 35 years he taught in the Wissahickon School District in Ambler Pennsylvania specializing in AP Calculus AB and BC and AP Statistics Mr Schwartz received his B S degree in Mathematics from Temple University Philadelphia Mr Schwartz was a 2002 recipient of the Presidential Award for Excellence in Mathematics Teaching and also won the 2007 Outstanding Educator of the Year Award for the Wissahickon School District Mr Schwartz s resource rich website www mastermathmentor com is geared toward helping educators teach AP Calculus AP Statistics and other math courses Mr Schwartz is always looking for ways to provide teachers with new and innovative teaching materials believing that it should be the goal of every math teacher not only to teach students mathematics but also to find joy and beauty in math as well   **Engineering Mathematics, 7th ed** John Bird,2014-04-16 A practical introduction to the core mathematics required for engineering study and practice Now in its seventh edition Engineering Mathematics is an established textbook that has helped thousands of students to succeed in their exams John Bird s approach is based on worked examples and interactive problems This makes it ideal for students from a wide range of academic backgrounds as the student can work through the material at their own pace Mathematical theories are explained in a straightforward manner being supported by practical engineering examples and applications in order to ensure that readers can relate theory to practice The extensive and thorough topic coverage makes this an ideal text for a range of Level 2 and 3 engineering courses This title is supported by a companion website with resources for both students and lecturers including lists of essential formulae multiple choice tests full solutions for all 1 800 further questions contained within the practice exercises and biographical information on the 24 famous mathematicians and engineers referenced throughout the book The companion website for this title can be accessed from www routledge com cw bird   Algebra 1 McDougal Littell Incorporated,Ron Larson,2003   *Precalculus* Cynthia Y. Young,2023-05-16 Cynthia Young s Precalculus 4th edition helps students take the guesswork out of studying by offering them an easy to read and clear roadmap that tells them what to do how to do it and whether they did it right With this revision the author focuses on the most difficult topics in precalculus bringing clarity to challenging learning objectives   *Introductory Mathematical Analysis for Business, Economics, and the*

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