

## 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?

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

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?

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

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?

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

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?

$$\boxed{P = 6191 \text{ in } 1990} \quad \boxed{r = 4\%}$$

(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?

$$y = 30000(1.05)^t \quad \text{at } t = 51 \quad y = \boxed{\$361,223.09}$$

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?

$$y = 500(1-.12)^t$$

$$\boxed{y = 500(.88)^t}$$

$t = \# \text{ breaths}$

$$y = 500(.88)^{240}$$

$$\boxed{y = .000000024 \text{ mL}}$$

$\text{or } y = 2.4 \times 10^{-8} \text{ mL}$

$$85 = 0$$

$$94 = 9$$

t	y
0	1
1	2
2	4
3	8

$$1960 = 0$$

$$2011 = 51$$

# Exponential Growth And Decay Word Problems Answers

**Roman Wölfel**



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The MATYC Journal, 1980

Intermediate Algebra Andrew Demetropoulos, Kenneth C. Wolff, 1985

Interactive College Algebra Davida Fischman, 2005

Content Literacy Elizabeth G. Sturtevant, Wayne M. Linek, 2004 On a distant alien world a race against time and human stupidity Kim s group still stranded halfway across Antares must get back to the base camp through a journey filled with deadly encounters Meanwhile at the base camp a trip to the neighbouring planet source of the strange ray that vaporised Kim s daughter is being organised The prospect of meeting an intelligent species though drives the religious fanatics in charge to clamp down on any person or activity deemed rebellious As if a hostile world isn t enough the colonists

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*Study Guide with Select Solutions and Visual Calculus 1998 Package* Larry J. Goldstein, Goldstein, David C. Lay, David I. Schneider, 1998-10-26 Features detailed explanations and solutions to every sixth exercise in the text Includes helpful hints and strategies for studying in this course In addition Visual Calculus the popular easy to use software for IBM compatible computers is included      *From the Algebra Collection* Decell, 2001-08      Algebra 1 : explorations and applications Miriam A.

Leiva, 1997      **Essentials of Introductory and Intermediate Algebra for College Students** Robert Blitzer, 2006

*Ekistics* , 1969      Science Books & Films , 1979      **The General Theory of Systems Applied to Management and Organization** , 1980      General Systems , 1938      **New Technical Books** , 1944      **Curriculum Review** , 1986

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