

Lesson 8-8: Exponential Growth and Decay

Part 1: Exponential Growth

1. 010256, P.1 A.A.9
On January 1, 1999, the price of gasoline was \$1.39 per gallon. If the price of gasoline increased by 0.5% per month, what was the cost of one gallon of gasoline, to the *nearest cent*, on January 1 one year later?
2. 080246, P.1 A.A.9
The Franklins inherited \$3,500, which they want to invest for their child's future college expenses. If they invest it at 8.25% with interest compounded monthly, determine the value of the account, in dollars, after 5 years. Use the formula $A = P(1 + \frac{r}{n})^n$, where A = value of the investment after t years, P = principal invested, r = annual interest rate, and n = number of times compounded per year.

Part 2: Exponential Decay

3. 010816
A radioactive substance has an initial mass of 100 grams and its mass halves every 4 years. Which expression shows the number of grams remaining after t years?
[A] $100(\frac{1}{2})^{\frac{t}{4}}$ [B] $100(\frac{1}{2})^{4t}$
[C] $100(4)^{\frac{t}{4}}$ [D] $100(4)^{-2t}$

4. 060606, P.1 A.A.9
The height, $f(x)$, of a bouncing ball after x bounces is represented by $f(x) = 80(0.5)^x$. How many times higher is the first bounce than the fourth bounce?
[A] 2 [B] 4 [C] 8 [D] 16
5. 060716, P.1 A.A.9
A population of wolves in a county is represented by the equation $P(t) = 80(0.98)^t$, where t is the number of years since 1998. Predict the number of wolves in the population in the year 2008.
6. 080216, P.1 A.A.9
A used car was purchased in July 1999 for \$11,900. If the car depreciates 13% of its value each year, what is the value of the car, to the *nearest hundred dollars*, in July 2002?
7. 180716, P.1 A.A.9
Daniel's Print Shop purchased a new printer for \$35,000. Each year it depreciates (loses value) at a rate of 5%. What will its approximate value be at the end of the fourth year?
[A] \$27,082.33 [B] \$33,250.00
[C] \$28,507.72 [D] \$30,008.13

Exponential Growth Lesson 9 3 Worksheet

BM King



Exponential Growth Lesson 9 3 Worksheet:

Whispering the Secrets of Language: An Psychological Quest through **Exponential Growth Lesson 9 3 Worksheet**

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