

EXPONENTIAL GROWTH AND DECAY

Exponential Growth

Occurs when a quantity increases by the same rate over time.

$$y = a(1 + r)^t$$

$$a = \text{initial amount}$$

$$r = \text{rate}$$

$$t = \text{time}$$

Examples

1. The original value of an investment is \$1400, and the value increases by 9% each year. Write an exponential growth function to model this situation. Then, find the value of the investment after 25 years.

$$\begin{array}{l}
 a = 1400 \\
 r = 9\% \rightarrow 0.09 \\
 t = 25
 \end{array}
 \quad
 \begin{array}{l}
 y = 1400(1 + 0.09)^t \\
 \textcircled{1} y = 1400(1.09)^t \\
 \textcircled{2} y = 1400(1.09)^{25} \\
 \textcircled{3} y \approx \$12,872
 \end{array}$$

2. The cost of tuition at a college is \$12,000 and is increasing at a rate of 6% each year. Write an exponential growth function to model this situation. Then, find the tuition cost after 4 years.

$$\textcircled{1} y = 12000(1.06)^t \quad \textcircled{2} y = \$15,162$$

3. The number of student athletes at a local high school is 300 and is increasing at a rate of 5% per year. Write an exponential growth function to model this situation. Then, find the number of student athletes after 5 years.

$$\textcircled{1} y = 300(1.05)^t \quad \textcircled{2} y = 391 \text{ student athletes}$$

4. Annual sales for a company are \$145,000 and are increasing at a rate of 6% per year. Write an exponential growth function to model this situation. Then, find the annual sales after 7 years.

$$\textcircled{1} y = 145000(1.06)^t \quad \textcircled{2} y = \$225,542$$

5. The population of a small town is 1600 and is increasing at a rate of 3% per year. Write an exponential function to model this situation. Then, find the population of the town after 10 years.

$$\textcircled{1} y = 1600(1.03)^t \quad \textcircled{2} y = 2160 \text{ people}$$

6. In 1985, there were 285 cell phone subscribers in Mayville. The number of subscribers increased by 75% per year after 1985. How many subscribers were in Mayville in 2008?

$$\textcircled{1} y = 285(1.75)^t \quad \textcircled{2} y = 12,542,994 \text{ subscribers}$$

Lesson 13 Exponential Growth Answers

Anthony S. Fauci



Lesson 13 Exponential Growth Answers:

Unveiling the Magic of Words: A Report on "**Lesson 13 Exponential Growth Answers**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Lesson 13 Exponential Growth Answers**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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
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