

Modeling Exponential Growth

Exponential Growth

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

A newly hatched catfish typically weighs about 0.3 gram. During the first six weeks of life, its growth is approximately exponential, increasing by about 10% each day. Find the weight of the fish at the end of six weeks.

↳ 42 days

- (a) Write an exponential function to model this scenario.
- (b) To the nearest thousandth, what is the weight of the fish at the end of six weeks?

$$\begin{array}{l} a = 0.3 \\ r = .10 \\ t = 42 \end{array} \quad \begin{array}{l} y = a(1 + r)^t \\ = .3(1 + .10)^{42} \\ = .3(1.10)^{42} \end{array}$$

Exponential Function Word Problems And Solutions

Reza Nazari

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red-to-white gradient semi-circle overlapping the right side of the bar.

Exponential Function Word Problems And Solutions:

Decoding **Exponential Function Word Problems And Solutions**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Exponential Function Word Problems And Solutions**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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