

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?

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

Exponential Function Word Problems And Solutions

Camilla Rothe



Exponential Function Word Problems And Solutions:

Exponential Function Word Problems And Solutions Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has been much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Exponential Function Word Problems And Solutions**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://staging.conocer.cide.edu/data/scholarship/index.jsp/greek%20mythology%20an%20introduction.pdf>

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