

# 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

**WJ Hussar**



## **Exponential Function Word Problems And Solutions:**

The book delves into Exponential Function Word Problems And Solutions. Exponential Function Word Problems And Solutions is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Exponential Function Word Problems And Solutions, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Exponential Function Word Problems And Solutions
    - Chapter 2: Essential Elements of Exponential Function Word Problems And Solutions
    - Chapter 3: Exponential Function Word Problems And Solutions in Everyday Life
    - Chapter 4: Exponential Function Word Problems And Solutions in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Exponential Function Word Problems And Solutions. The first chapter will explore what Exponential Function Word Problems And Solutions is, why Exponential Function Word Problems And Solutions is vital, and how to effectively learn about Exponential Function Word Problems And Solutions.
  3. In chapter 2, the author will delve into the foundational concepts of Exponential Function Word Problems And Solutions. This chapter will elucidate the essential principles that must be understood to grasp Exponential Function Word Problems And Solutions in its entirety.
  4. In chapter 3, this book will examine the practical applications of Exponential Function Word Problems And Solutions in daily life. This chapter will showcase real-world examples of how Exponential Function Word Problems And Solutions can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Exponential Function Word Problems And Solutions in specific contexts. This chapter will explore how Exponential Function Word Problems And Solutions is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Exponential Function Word Problems And Solutions. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Exponential Function Word Problems And Solutions.

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