

EXAMPLE 1**Use properties of logarithms**

Use $\log_4 3 \approx 0.792$ and $\log_4 7 \approx 1.404$ to evaluate the logarithm.

a. $\log_4 \frac{3}{7} = \log_4 3 - \log_4 7$ **Quotient property**

$$\approx 0.792 - 1.404$$
 Use the given values of $\log_4 3$ and $\log_4 7$.

$$= -0.612$$
 Simplify.

b. $\log_4 21 = \log_4 (3 \cdot 7)$ **Write 21 as $3 \cdot 7$.**

$$= \log_4 3 + \log_4 7$$
 Product property

$$\approx 0.792 + 1.404$$
 Use the given values of $\log_4 3$ and $\log_4 7$.

$$= 2.196$$
 Simplify.

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L Darling-Hammond



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Table of Contents Log Properties Unit 09 Lesson 01

1. Understanding the eBook Log Properties Unit 09 Lesson 01
 - The Rise of Digital Reading Log Properties Unit 09 Lesson 01
 - Advantages of eBooks Over Traditional Books
2. Identifying Log Properties Unit 09 Lesson 01
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Log Properties Unit 09 Lesson 01
 - User-Friendly Interface
4. Exploring eBook Recommendations from Log Properties Unit 09 Lesson 01
 - Personalized Recommendations

- Log Properties Unit 09 Lesson 01 User Reviews and Ratings
- Log Properties Unit 09 Lesson 01 and Bestseller Lists
- 5. Accessing Log Properties Unit 09 Lesson 01 Free and Paid eBooks
 - Log Properties Unit 09 Lesson 01 Public Domain eBooks
 - Log Properties Unit 09 Lesson 01 eBook Subscription Services
 - Log Properties Unit 09 Lesson 01 Budget-Friendly Options
- 6. Navigating Log Properties Unit 09 Lesson 01 eBook Formats
 - ePub, PDF, MOBI, and More
 - Log Properties Unit 09 Lesson 01 Compatibility with Devices
 - Log Properties Unit 09 Lesson 01 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Log Properties Unit 09 Lesson 01
 - Highlighting and Note-Taking Log Properties Unit 09 Lesson 01
 - Interactive Elements Log Properties Unit 09 Lesson 01
- 8. Staying Engaged with Log Properties Unit 09 Lesson 01
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Log Properties Unit 09 Lesson 01
- 9. Balancing eBooks and Physical Books Log Properties Unit 09 Lesson 01
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Log Properties Unit 09 Lesson 01
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Log Properties Unit 09 Lesson 01
 - Setting Reading Goals Log Properties Unit 09 Lesson 01
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Log Properties Unit 09 Lesson 01
 - Fact-Checking eBook Content of Log Properties Unit 09 Lesson 01

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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