

Cryptology is the science of making and breaking codes. This exercise explores how the idea of functions and their inverses can be used to encode and decode messages.

To encode and decode a message, first replace each letter of the alphabet with a positive integer using the following scheme, thus rewriting the original message as numbers instead of words:

A – 1	F – 6	K – 11	P – 16	U – 21	Z – 26
B – 2	G – 7	L – 12	Q – 17	V – 22	Blank – 27
C – 3	H – 8	M – 13	R – 18	W – 23	
D – 4	I – 9	N – 14	S – 19	X – 24	
E – 5	J – 10	O – 15	T – 20	Y – 25	

ENCODING: A one-to-one function can be used to encode a numerical message.

For example, suppose you want to send the message **MATH** to a friend, and you have decided that the function $f(x) = 3x + 4$ will be the encoding function. This function describes the procedure used to create the encoded message – in this case multiply by 3 and add 4.

First change the letters to the corresponding numbers as shown above: **13 1 20 8**

Now use these numbers as the input values in $f(x)$:

$$f(13) = 3(13) + 4 = 43$$

$$f(1) = 7$$

$$f(20) = 64$$

$$f(8) = 28$$

So the encoded message that you send to your friend is: **43 7 64 28**

DECODING: Now it is up to your friend to decode the message. Decoding is the process that undoes the encoding process. If $f(x)$ encodes the message, then the inverse, $f^{-1}(x)$, will decode it. So $f^{-1}(x)$ is the decoding function.

In this example, the inverse of $f(x) = 3x + 4$ can be found to be $f^{-1}(x) = \frac{x-4}{3}$.

Take the encoded message "**43 7 64 28**" and use these numbers as the input values in $f^{-1}(x)$.

The last step is to convert the decoded numbers back to letters using the table given previously.

$$f^{-1}(43) = 13 = \text{M}$$

$$f^{-1}(7) = 1 = \text{A}$$

$$f^{-1}(64) = 20 = \text{T}$$

$$f^{-1}(28) = 8 = \text{H}$$

Now your friend knows the message that you sent was **MATH**.

Algebra Lab Recording Sheet Answers Chapter 9

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Table of Contents Algebra Lab Recording Sheet Answers Chapter 9

1. Understanding the eBook Algebra Lab Recording Sheet Answers Chapter 9
 - The Rise of Digital Reading Algebra Lab Recording Sheet Answers Chapter 9
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra Lab Recording Sheet Answers Chapter 9
 - 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 Algebra Lab Recording Sheet Answers Chapter 9
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra Lab Recording Sheet Answers Chapter 9
 - Personalized Recommendations
 - Algebra Lab Recording Sheet Answers Chapter 9 User Reviews and Ratings
 - Algebra Lab Recording Sheet Answers Chapter 9 and Bestseller Lists
5. Accessing Algebra Lab Recording Sheet Answers Chapter 9 Free and Paid eBooks
 - Algebra Lab Recording Sheet Answers Chapter 9 Public Domain eBooks
 - Algebra Lab Recording Sheet Answers Chapter 9 eBook Subscription Services
 - Algebra Lab Recording Sheet Answers Chapter 9 Budget-Friendly Options
6. Navigating Algebra Lab Recording Sheet Answers Chapter 9 eBook Formats

- ePub, PDF, MOBI, and More
- Algebra Lab Recording Sheet Answers Chapter 9 Compatibility with Devices
- Algebra Lab Recording Sheet Answers Chapter 9 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra Lab Recording Sheet Answers Chapter 9
 - Highlighting and Note-Taking Algebra Lab Recording Sheet Answers Chapter 9
 - Interactive Elements Algebra Lab Recording Sheet Answers Chapter 9
- 8. Staying Engaged with Algebra Lab Recording Sheet Answers Chapter 9
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra Lab Recording Sheet Answers Chapter 9
- 9. Balancing eBooks and Physical Books Algebra Lab Recording Sheet Answers Chapter 9
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra Lab Recording Sheet Answers Chapter 9
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Algebra Lab Recording Sheet Answers Chapter 9
 - Setting Reading Goals Algebra Lab Recording Sheet Answers Chapter 9
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Algebra Lab Recording Sheet Answers Chapter 9
 - Fact-Checking eBook Content of Algebra Lab Recording Sheet Answers Chapter 9
 - 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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