

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**.

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Scientific and Technical Aerospace Reports, 1987 **ERDA Energy Research Abstracts**, 1977 ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1977 *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration. Technical Information Center, 1977 Skill Builder Divide, Measure & Multiply Twin Sisters® Digital Media™, 2025-04-14 Reviewed evaluated edited and creatively written by teaching professionals this workbook implements current teaching strategies and aligns with grade level standards Integrating Math and Science, 1996 **The PBIS Team Handbook** Char Ryan, Beth Baker, 2020-06-30 A revised and updated edition of the best selling guide for schools implementing PBIS Tier 1 PBIS positive behavior interventions and supports is the most important tool educators have to deal with disruptive student behaviors This revised and updated handbook provides detailed guidelines for implementing and sustaining PBIS for schools and teams New in this edition is a chapter addressing inequity and bias in behavior referrals and discipline a tiered fidelity inventory TFI to evaluate adherence to PBIS practices different methods of data collection and new research on sustainability Positive school climates are not achieved through expulsions suspensions or detentions but instead through collective analysis and data driven decision making Downloadable digital content offers a PDF presentation to aid staff buy in and customizable forms to help manage data and assess progress with ease **ENC Focus**, 1995 Next-Level Digital Tools and Teaching Rachel Karchmer-Klein, Lauren Boulden, Maureen McDonald, 2022 What we have learned from the many challenges of online

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