

Section 11.1 Math Link

This worksheet will help you with the Math Link on page 394.

One simple way to develop a code is to assign a number to each letter.

1 = a	2 = b	3 = c	4 = d	5 = e	6 = f	7 = g
8 = h	9 = i	10 = j	11 = k	12 = l	13 = m	14 = n
15 = o	16 = p	17 = q	18 = r	19 = s	20 = t	21 = u
22 = v	23 = w	24 = x	25 = y	26 = z		

Using this code, H-E-L-L-O would be represented by 8 5 12 12 15.

1. Spell your first and last name with the code.

	Name	Code
First		
Last		

2. Change the code in #1 to a $2n - 1$ code. To do this, multiply each number from the chart by two, and subtract one. Show your work.

$a = 2n - 1$ $= 2(1) - 1$ $= 1$	$b = 2n - 1$ $= 2(2) - 1$ $= 3$	$c = 2n - 1$ $= 2(3) - 1$ $= 5$	$d = 2n - 1$	$e =$	$f =$
$g =$	$h =$	$i =$	$j =$	$k =$	$l =$
$m =$	$n =$	$o =$	$p =$	$q =$	$r =$
$s =$	$t =$	$u =$	$v =$	$w =$	$x =$
$y =$	$z =$				

Name: _____ Date: _____

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(continued)

3. Write H-E-L-L-O using the new code. _____

4. Spell your first and last name with the new code.

	Name	Code
First		
Last		

5. Use the new code to write a message to a friend and decode a message from a friend.