

Activity 3

Use the clues and the chart to determine the value of each letter, solve the cryptogram, and discover the famous quote.

$i < e$

$i < r$

$s < i$

$r < e$

	i	s	e	r
2				
4				
6				
8				

$i = \underline{\quad}$

$s = \underline{\quad}$

$e = \underline{\quad}$

$r = \underline{\quad}$

$a > w$

$a > t$

$c > a$

$t < w$

	a	c	w	t
1				
3				
5				
7				

$a = \underline{\quad}$

$c = \underline{\quad}$

$w = \underline{\quad}$

$t = \underline{\quad}$

$m > o$

$m > f$

$f \times o = 99$

$u < f$

	m	o	f	u
9				
10				
11				
12				

$m = \underline{\quad}$

$o = \underline{\quad}$

$f = \underline{\quad}$

$u = \underline{\quad}$

Cryptogram (Parentheses separate double digits; they have no other meaning.)
 "41 42 19d5y 38 (12)(10)21 768518 1h8 396ld 9(11)
 1h8 (11)(10)1(10)68."

8l85n96 69928v8l1

"_ _ _ _ d _ y _ _ _ _ _ _ _ _
 _ h _ _ _ ld _ _ _ h _ _ _ _ _ _ _ _."
 _ l _ _ n _ _ _ _ _ _ v _ l _

Page 3: "It is today we must create the world of the future."*Eleanor Roosevelt*

	i	s	e	r
2	—	+	—	—
4	+	—	—	—
6	—	—	—	+
8	—	—	+	—

Answers: $i = 4$; $s = 2$; $e = 8$; $r = 6$

Since i is less than e and r , but greater than s , i must be 4. Therefore, s must be 2, the smallest number, and e and r must be either 6 or 8. Since r is less than e , r must be 6, and e must be 8.

	a	c	w	t
1	—	—	—	+
3	—	—	+	—
5	+	—	—	—
7	+	—	—	—

Answers: $a = 5$; $c = 7$; $w = 3$; $t = 1$

Since a is greater than w and t , but less than c , a must be 5. Therefore, c must be 7, the largest number, and w and t must be either 1 or 3. Since t is less than w , t must be 1. w is then 3.

	m	o	f	u
9	—	+	—	—
10	—	—	—	+
11	—	—	+	—
12	+	—	—	—

Answers: $m = 12$; $o = 9$; $f = 11$; $u = 10$

Since m is greater than o and f , m must be either 11 or 12. If f times o is 99, f and o must be either 9 or 11, so m must be 12, the largest number. Since f is greater than u and less than m , f must be 11, a middle number. Therefore, o is 9 and u is 10.