

Activity 26

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

$$(w - s) + u = 10$$

$$u < 7$$

	w	s	d	u
5				
2				
7				
9				

$$w = \underline{\hspace{2cm}}$$

$$s = \underline{\hspace{2cm}}$$

$$d = \underline{\hspace{2cm}}$$

$$u = \underline{\hspace{2cm}}$$

$$m \times n = o \times 2$$

$$m \times a < n \times a$$

	o	m	a	n
6				
4				
3				
10				

$$o = \underline{\hspace{2cm}}$$

$$m = \underline{\hspace{2cm}}$$

$$a = \underline{\hspace{2cm}}$$

$$n = \underline{\hspace{2cm}}$$

$$c \times c \neq 64$$

$$e \times e \neq 144$$

$$i \times h = i$$

$$h \times e \neq 8$$

	e	c	i	h
11				
8				
1				
12				

$$e = \underline{\hspace{2cm}}$$

$$c = \underline{\hspace{2cm}}$$

$$i = \underline{\hspace{2cm}}$$

$$h = \underline{\hspace{2cm}}$$

Cryptogram (Parentheses separate double digits; they have no other meaning.)

71(10)t 3(10)k(11)2 3528(12) 64 y65r 1(11)(10)9?
 (10) 1(11)(10)9-b(10)49!

— — — t — — k — — — — — — — — — — y — — r
 — — — — ? — — — — — — — — — — b — — — — !

Answers

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A head-band!

	w	s	d	u
5	—	—	—	+
2	—	+	—	—
7	+	—	—	—
9	—	—	+	—

Answers: $w = 7$; $s = 2$; $d = 9$; $u = 5$

If u is less than 7, u must be either 2 or 5. If w minus s plus u equals 10, w must be 7, s must be 2, and u must be 5, for the equation to be true. d is then 9.

	o	m	a	n
6	+	—	—	—
4	—	—	—	+
3	—	+	—	—
10	—	—	+	—

Answers: $o = 6$; $m = 3$; $a = 10$; $n = 4$

If m times n equals o times 2, o must be 6, and m and n must be either 3 or 4. If m times a is less than n times a , m must be 3 and n must be 4. a is then 10.

	e	c	i	h
11	+	—	—	—
8	—	—	+	—
1	—	—	—	+
12	—	+	—	—

Answers: $e = 11$; $c = 12$; $i = 8$; $h = 1$

If c times c does not equal 64, c is not 8. If e times e does not equal 144, e is not 12. If i times h equals i , h must be 1. If h times e does not equal 8, e must not be 8, and since it is not 12, e must be 11, the only remaining number. Therefore, c must be 12. i is then 8.