

Activity 29

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

$g \times s = (s + l + 5) \times s$
 $s \times g = g$

	s	g	p	l
1				
3				
4				
9				

$s = \underline{\hspace{2cm}}$
 $g = \underline{\hspace{2cm}}$
 $p = \underline{\hspace{2cm}}$
 $l = \underline{\hspace{2cm}}$

$e \times 10 > 100$
 $r \times e > 60$
 $r \times u < 13$

	c	u	e	r
2				
5				
6				
11				

$c = \underline{\hspace{2cm}}$
 $u = \underline{\hspace{2cm}}$
 $e = \underline{\hspace{2cm}}$
 $r = \underline{\hspace{2cm}}$

$i \div k = 1.5$
 $o \times 100 = a \times 70$

	k	i	o	a
7				
8				
10				
12				

$k = \underline{\hspace{2cm}}$
 $i = \underline{\hspace{2cm}}$
 $o = \underline{\hspace{2cm}}$
 $a = \underline{\hspace{2cm}}$

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

Wh(10)t d7 y72 9(11)t wh(11)n y72 56711 47(12)17n
 7(10)8 w(12)th (10) f726 3(11)(10)f 537v(11)6? (10)
 6(10)1h 7f 977d 3258!

Wh _ t d _ y _ _ _ _ t wh _ n y _ _
 _ _ _ _ _ n _ _ _ w _ th _
 f _ _ _ _ f _ _ _ v _ _ ? _ _ _ h _ f
 _ _ _ d _ _ _ _ !

Answers

Page 29: What do you get when you cross poison oak with a four leaf clover? A rash of good luck!

	s	g	p	l
1	+	—	—	—
3	—	—	—	+
4	—	—	+	—
9	—	+	—	—

Answers: $s = 1$; $g = 9$; $p = 4$; $l = 3$
 If s times g equals g , s must be 1 for the equation to be true. If g times s equals s plus l plus 5, times s , g must be 9 and l must be 3, for the equation to be true. p is then 4.

	c	u	e	r
2	—	+	—	—
5	+	—	—	—
6	—	—	—	+
11	—	—	+	—

Answers: $c = 5$; $u = 2$; $e = 11$; $r = 6$
 If e times 10 is greater than 100, e must be 11 for the statement to be true. If r times e is greater than 60, r must be 6 for the statement to be true. If r times u is less than 13, u must be 2, for the statement to be true. c is then 5.

	k	i	o	a
7	—	—	+	—
8	+	—	—	—
10	—	—	—	+
12	—	+	—	—

Answers: $k = 8$; $i = 12$; $o = 7$; $a = 10$
 If i divided by k equals 1.5, i must be 12 and k must be 8 for the equation to be true with the given numbers. If o times 100 equals a times 70, o must be 7 and a must be 10 for the equation to be true.