

Activity 24

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

$$s \times 15 = o + g + r$$

$$o \div s = 5.5$$

$$r \times s > g \times s$$

	o	g	r	s
2				
9				
10				
11				

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

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

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

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

$$d \neq i \times t$$

$$i < t$$

$$t = 2.6 + 1.4$$

	d	i	a	t
3				
4				
8				
12				

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

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

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

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

$$e \div 3 \neq 2$$

$$l < f < e$$

$$l \neq 4.3 - 3.3$$

	f	l	c	e
1				
5				
6				
7				

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

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

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

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

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

Wh(12)4 838 4h7 2(12)5(12)8 2(12)y 4(11) 4h7
 (10)76(10)397(10)(12)4(11)(10)? 15(11)27 4h7 8(11)(11)(10);
 3'm 8(10)7223n9!

Wh _ _ _ _ _ h _ _ _ _ _ y _ _
 _ h _ _ _ _ _ ? _ _ _ _ _ h _
 _ _ _ _ ; _ 'm _ _ _ _ _ n _ !

Answers

Page 24: What did the salad say to the refrigerator? Close the door; I'm dressing!

	o	g	r	s
2	—	—	—	+
9	—	+	—	—
10	—	—	+	—
11	+	—	—	—

Answers: $o = 11$; $g = 9$; $r = 10$; $s = 2$
 If s times 15 equals o plus g plus r , s must be 2, and o , g , and r must be 9, 10, or 11. If o divided by s equals 5.5, o must be 11 for the equation to be true. If r times s is greater than g times s , r must be greater than g . Therefore, r must be 10 and g must be 9.

	d	i	a	t
3	—	+	—	—
4	—	—	—	+
8	+	—	—	—
12	—	—	+	—

Answers: $d = 8$; $i = 3$; $a = 12$; $t = 4$
 If t equals 2.6 plus 1.4, t must be 4. If i is less than t , i must be 3, the smallest number. If d does not equal i times t , d is not 12; therefore, d must be 8, the only remaining number. a is then 12.

	f	l	c	e
1	—	—	+	—
5	—	+	—	—
6	+	—	—	—
7	—	—	—	+

Answers: $f = 6$; $l = 5$; $c = 1$; $e = 7$
 If e divided by 3 does not equal 2, e is not 6. If l does not equal 4.3 minus 3.3, l is not 1. If l is less than f and e , and l is not 1, then l must be 5, the next lowest number. If e is greater than f and l , and is not 6, e must be 7, the largest number. f must then be 6 since it is greater than l and less than e . c is then 1.