Activity 25

Use the clues and the chart to determine the value of each letter, solve the cryptogram, and discover the classic joke.
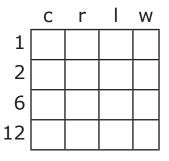
$f > 3.5 + 5.5$
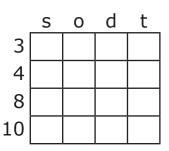
$f - 3 > e > i$

	n	e	i	f
5				
7				
9				
11				

n = ____
e = ____
i = ____
f = ____

$(c \div 4) + 11.5 = w$

$r \times c < l \times c$

	c	r	l	w
1				
2				
6				
12				

c = ____
r = ____
l = ____
w = ____

$o > (d + t) + 1$

$s > (d + t)$

$d < t$

	s	o	d	t
3				
4				
8				
10				

s = ____
o = ____
d = ____
t = ____

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

(12)hy   (12)a8   4h7   2(10)mpu471   8(10)   2(10)63?   54
(11)(10)1g(10)4   4(10)   26(10)87   548   (12)593(10)(12)8!

_ hy   _ a _   _ h _   _ _ mpu _ _ _   _ _   _ _ _ _ _?

_ _   _ _ _ g _ _   _ _   _ _ _ _ _   _ _ _

_ _ _ _ _ _ _!

Page 25: **Why was the computer so cold?
It forgot to close its windows!**

	n	e	i	f
5	—	—	+	—
7	—	+	—	—
9	+	—	—	—
11	—	—	—	+

Answers: n = 9; e = 7; i = 5; f = 11
If *f* is greater than 3.5 plus 5.5, *f* must be 11, the largest number. If *f* minus 3 is greater than *e*, then *e* must be either 5 or 7, and since *e* is greater than *i*, *e* must be 7 and *i* must be 5. *n* is then 9.

	c	r	l	w
1	—	+	—	—
2	+	—	—	—
6	—	—	+	—
12	—	—	—	+

Answers: c = 2; r = 1; l = 6; w = 12
If *c* divided 4, plus 11.5, equals *w*, *c* must be 2 and *w* must be 12 for the equation to be true. If *r* times *c* is less than *l* times *c*, *r* is less than *l*; therefore, *r* must be 1, and *l* must be 6.

	s	o	d	t
3	—	—	+	—
4	—	—	—	+
8	+	—	—	—
10	—	+	—	—

Answers: s = 8; o = 10; d = 3; t = 4
If *o* is greater than *d* plus *t* plus 1, *o* must be 10, and *d* and *t* must be either 3 or 4, for the statement to be true. If *s* is greater than *d* plus *t*, *s* must be 8, the only remaining number larger than 7. Since *d* is less than *t*, *d* must be 3 and *t* must be 4.