## **Activity 2**

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

	-	а	S	n
1				
2				
3				
4				

	=	
а	=	
S	=	
n	=	

$$h + r = 12$$
  
 $h > r$   
 $h > t$ 

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

W7(11) 921'6 (11)(12)u 6(10)33 2 4(10)95(10)6 81 2 9(12)51f8(10)3d? 6(12)(12) m21(11) (10)254 25(10) 3846(10)181g!

W'_	u
	_ f d? m
	g!

## **Answers**

**Page 2:** Why can't you tell a secret in a cornfield? Too many ears are listening!

	1	а	S	n
1				+
2		+	_	_
3	+	_	_	_
4			+	

Answers: I = 3; a = 2; s = 4; n = 1Since I and S are both greater than S and S must the largest numbers, either 3 or 4. Since S is less than S, S, and S, then S must be 1, the smallest number. Since S is larger than S, but less than S and S, a must be 2. If S minus S equals S, then S must be 3 for the equation to be true. S is then 4.

	i	r	h	t
5	_	+		
6	_			+
7	_		+	_
8	+			_

Answers: i = 8; r = 5; h = 7; t = 6If h plus r equals 12, then h and r must be either 5 or 7 for the equation to be true. Since h is greater than r, h must be 7 and r must be 5. Since t is less than h, t must be 6, the only number remaining which is less than 7. t is then 8.

	У	0	С	е
9		_	+	_
10		_	_	+
11	+	_	_	_
12	_	+	_	_

Answers: y = 11; o = 12; c = 9; e = 10If o plus 2 equals 14, o must be 12 for the equation to be true. Since y is greater than c and e, y must be 11, the largest remaining number. Since c is less than e, c must be 9 and e must be 10.