

Activity 21

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

$$t \neq 71 - 63$$

$$c < 99 - 91$$

$$s < c$$

| | h | c | s | t |
|----|---|---|---|---|
| 10 | | | | |
| 8 | | | | |
| 7 | | | | |
| 5 | | | | |

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

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

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

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

$$n > 99 \div 9$$

$$p \neq n - 3$$

$$f \neq n - 1$$

$$l < n \div 2$$

| | p | l | f | n |
|----|---|---|---|---|
| 12 | | | | |
| 11 | | | | |
| 9 | | | | |
| 4 | | | | |

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

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

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

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

$$a \div o = g$$

$$e \times e = g - e$$

| | g | o | a | e |
|---|---|---|---|---|
| 6 | | | | |
| 3 | | | | |
| 2 | | | | |
| 1 | | | | |

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

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

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

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

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

W8y did (10)81 23491r (10)6k1 (10)w3 (11)6ir5 39
 (11)6(12)(10)5 (10)3 (10)81 26m1? I(12) 7651 81
 23(10) 6 8341 i(12) 3(12)1!

W _ y did _ _ _ _ _ r _ _ k _ _ w _
 _ _ ir _ _ _ _ _ _ _ _ _ _ m _ ?
 I _ _ _ _ _ _ _ _ _ _ i _ _ _ _ !

Answers

Page 21: Why did the golfer take two pairs of pants to the game? In case he got a hole in one!

| | h | c | s | t |
|----|---|---|---|---|
| 10 | — | — | — | + |
| 8 | + | — | — | — |
| 7 | — | + | — | — |
| 5 | — | — | + | — |

Answers: $h = 8$; $c = 7$; $s = 5$; $t = 10$

If t does not equal 71 minus 63, then t is not 8.

If c is less than 99 minus 91, c must be 5 or 7 for the statement to be true. Since s is less than c , s must be 5 and c must be 7. Therefore, t must be 10 since it is not 8, 5, or 7. h is then 8.

| | p | l | f | n |
|----|---|---|---|---|
| 12 | — | — | — | + |
| 11 | + | — | — | — |
| 9 | — | — | + | — |
| 4 | — | + | — | — |

Answers: $p = 11$; $l = 4$; $f = 9$; $n = 12$

If n is greater than 99 divided by 9, n must be 12 for the statement to be true. If p does not equal n minus 3, p is not 9. If f does not equal n minus 1, f is not 11. If l is less than n divided by 2, l must be 4, the only number less than 6. Therefore, f must be 9 and p must be 11.

| | g | o | a | e |
|---|---|---|---|---|
| 6 | — | — | + | — |
| 3 | — | + | — | — |
| 2 | + | — | — | — |
| 1 | — | — | — | + |

Answers: $g = 2$; $o = 3$; $a = 6$; $e = 1$

If a divided by o equals g , a must be 6, and o and g must be either 2 or 3 for the equation to be true. Since e times e equals g minus e , g must be 2 and e must be 1 for the equation to be true. Therefore, o must be 3.