

What Happened When the Crossword Puzzle Champion Died?

Find the graph of the solution set of each inequality below in the corresponding column of graphs. Notice the letter next to it. Write this letter in each box containing the number of that exercise. Keep working and you will find out about this grave event.

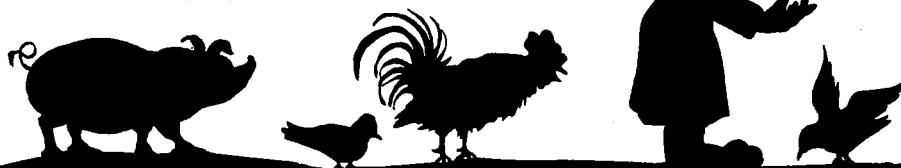
1 $x < 2$		10 $x < 1$ M	
2 $x \leq 2$		11 $1 < x$ Y	
3 $x > 2$		12 $-3 \leq x$ C	
4 $x \geq 2$		13 $x > -3$ N	
5 $x \neq 1$		14 $x \neq -1$ R	
6 $x < -1$		15 $0 \geq x$ I	
7 $x > -1$		16 $0 \leq x$ B	
8 $x \leq -1$		17 $0 > x$ D	
9 $x \geq -1$		18 $0 < x$ S	

1	8	6	11	16	5	14	15	6	17	8	15	10	18	15	7	17	3	2	13	4	13	17	6	15	9	8	1	4	12	14	3	18	18
T	H	E	Y	B	U	R	I	E	D	H	I	M	S	I	X	D	O	W	N	A	N	D	E	I	G	H	T	A	C	R	O	S	S

KEY

Why Was Professor Clabberhead Utterbunk Holding Up a Piece of Bread?

Solve each inequality below. In the answer column, find the inequality that describes the solution set and notice the letter next to it. Print this letter in each box at the bottom of the page that contains the number of that exercise.



R (1) $5x + 2 > 3x + 10$
 $2x > 8 \rightarrow x > 4$

N (2) $8 + 2x \leq 6x - 20$
 $28 \leq 4x \rightarrow 7 \leq x \rightarrow x \geq 7$

A (3) $4x + 49 < 9 - x$
 $5x < -40 \rightarrow x < -8$

I (4) $9x - 99 \geq 18x$
 $-99 \geq 9x \rightarrow -11 \geq x \rightarrow x \leq -11$

H (5) $3(x - 4) > 15$
 $x - 4 > 5 \rightarrow x > 9$

S (6) $28 < 4(5 - 2x)$
 $7 < 5 - 2x \rightarrow 2x < -2 \rightarrow x < -1$

E (7) $3(2n + 1) \geq 4n + 9$
 $6n + 3 \geq 4n + 9 \rightarrow 2n \geq 6 \rightarrow n \geq 3$

G (8) $3n - 10 \leq 7(2 + n)$
 $3n - 10 \leq 14 + 7n \rightarrow -24 \leq 4n \rightarrow n \geq -6$

W (9) $-4(2n - 6) < n + 6$
 $-8n + 24 < n + 6 \rightarrow 18 < 9n \rightarrow n > 2$

P (10) $2(7n - 1) \geq 3(5 - n)$
 $14n - 2 \geq 15 - 3n \rightarrow 17n \geq 17 \rightarrow n \geq 1$

O (11) $7n - 2(n + 5) < 3n - 16$
 $7n - 2n - 10 < 3n - 16 \rightarrow 2n < -6 \rightarrow n < -3$

T (12) $4(1 - 3n) - 14 > 4(2n + 3) - 9n$
 $4 - 12n - 14 > 8n + 12 - 9n$
 $-22 > 11n$
 $-2 > n \rightarrow n < -2$

(L) $n \geq 5$

~~(G)~~ $n \geq -6$

~~(A)~~ $x < -8$

~~(O)~~ $n < -3$

~~(R)~~ $x > 4$

~~(S)~~ $x < -1$

(U) $x < 10$

~~(I)~~ $x \leq -11$

~~(P)~~ $n \geq 1$

~~(N)~~ $x \geq 7$

~~(T)~~ $n < -2$

~~(E)~~ $n \geq 3$

~~(W)~~ $n > 2$

(M) $n < -5$

~~(H)~~ $x > 9$

5	7	9	3	6	10	1	11	10	11	6	4	2	8	3	12	11	3	6	12
H	E	W	A	S	P	R	O	P	O	S	I	N	G	A	T	O	A	S	T