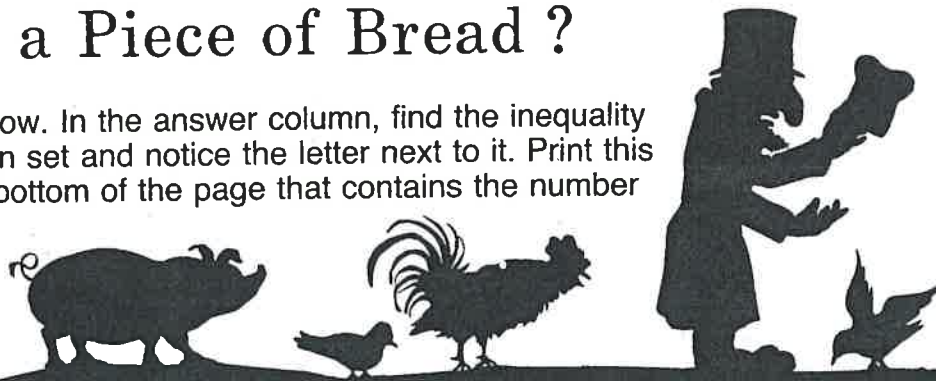


Why Was Professor Clabberhead Utterbunk Holding Up a Piece of Bread ?

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.



① $5x + 2 > 3x + 10$ R.

② $8 + 2x \leq 6x - 20$ N.

③ $4x + 49 < 9 - x$ A.

④ $9x - 99 \geq 18x$ I.

⑤ $3(x - 4) > 15$ H.

⑥ $28 < 4(5 - 2x)$ S.

⑦ $3(2n + 1) \geq 4n + 9$ E.

⑧ $3n - 10 \leq 7(2 + n)$ G.

⑨ $-4(2n - 6) < n + 6$ W.

⑩ $2(7n - 1) \geq 3(5 - n)$ P.

⑪ $7n - 2(n + 5) < 3n - 16$ O.

⑫ $4(1 - 3n) - 14 > 4(2n + 3) - 9n$ T.

Ⓕ $n \geq 5$

Ⓖ $n \geq -6$

Ⓐ $x < -8$

Ⓞ $n < -3$

Ⓓ $x > 4$

Ⓢ $x < -1$

Ⓤ $x < 10$

Ⓘ $x \leq -11$

Ⓟ $n \geq 1$

Ⓝ $x \geq 7$

Ⓣ $n < -2$

Ⓔ $n \geq 3$

Ⓦ $n > 2$

Ⓜ $n < -5$

Ⓗ $x > 9$

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

$$\begin{aligned}
 1. \quad & 5x + 2 > 3x + 10 \\
 & \begin{array}{r} -3x \quad -3x \\ 2x + 2 > 10 \\ -2 \quad -2 \\ \hline 2x > 8 \\ \hline x > 4 \end{array}
 \end{aligned}$$

$$\begin{aligned}
 2. \quad & 8 + 2x \leq 6x - 20 \\
 & \begin{array}{r} -2x \quad -2x \\ 8 \leq 4x - 20 \\ +20 \quad +20 \\ \hline 28 \leq 4x \\ \hline 7 \leq x \\ x \geq 7 \end{array}
 \end{aligned}$$

$$\begin{aligned}
 3. \quad & 4x + 49 < 9 - x \\
 & \begin{array}{r} +x \quad +x \\ 5x + 49 < 9 \\ -49 \quad -49 \\ \hline 5x < -40 \\ \hline x < -8 \end{array}
 \end{aligned}$$

$$\begin{aligned}
 4. \quad & 9x - 99 \geq 18x \\
 & \begin{array}{r} -9x \quad -9x \\ -99 \geq 9x \\ \hline -11 \geq x \\ x \leq -11 \end{array}
 \end{aligned}$$

$$\begin{aligned}
 5. \quad & 3(x - 4) > 15 \\
 & \begin{array}{r} 3x - 12 > 15 \\ +12 \quad +12 \\ \hline 3x > 27 \\ \hline x > 9 \end{array}
 \end{aligned}$$

$$\begin{aligned}
 6. \quad & 28 < 4(5 - 2x) \\
 & \begin{array}{r} 28 < 20 - 8x \\ -20 \quad -20 \\ \hline 8 < -8x \\ \hline -1 > x \\ x < -1 \end{array}
 \end{aligned}$$

$$\begin{aligned}
 7. \quad & 3(2n + 1) \geq 4n + 9 \\
 & \begin{array}{r} 6n + 3 \geq 4n + 9 \\ -4n \quad -4n \\ \hline 2n + 3 \geq 9 \\ -3 \quad -3 \\ \hline 2n \geq 6 \\ \hline n \geq 3 \end{array}
 \end{aligned}$$

$$\begin{aligned}
 8. \quad & 3n - 10 \leq 7(2 + n) \\
 & \begin{array}{r} 3n - 10 \leq 14 + 7n \\ -3n \quad -3n \\ \hline -10 \leq 14 + 4n \\ -14 \quad -14 \\ \hline -24 \leq 4n \\ \hline -6 \leq n \\ n \geq -6 \end{array}
 \end{aligned}$$

$$\begin{aligned}
 9. \quad & -4(2n - 6) < n + 6 \\
 & \begin{array}{r} -8n + 24 < n + 6 \\ -1n \quad -1n \\ \hline -9n + 24 < 6 \\ -24 \quad -24 \\ \hline -9n < -18 \\ \hline n > 2 \end{array}
 \end{aligned}$$

$$10. 2(7n-1) \geq 3(5-n)$$

$$14n - 2 \geq 15 - 3n$$

$$+3n \quad +3n$$

$$17n - 2 \geq 15$$

$$+2 \quad +2$$

$$\frac{17n}{17} \geq \frac{17}{17}$$

$$n \geq 1$$

$$11. 7n - 2(n+5) < 3n - 16$$

$$7n - 2n - 10 < 3n - 16$$

$$5n - 10 < 3n - 16$$

$$-3n \quad -3n$$

$$2n - 10 < -16$$

$$+10 \quad +10$$

$$\frac{2n}{2} < \frac{-6}{2}$$

$$n < -3$$

$$12. 4(1-3n) - 14 > 4(2n+3) - 9n$$

$$4 - 12n - 14 > 8n + 12 - 9n$$

$$-12n - 10 > -n + 12$$

$$+n$$

$$+n$$

$$-11n - 10 > 12$$

$$+10 \quad +10$$

$$\frac{-11n}{-11} > \frac{22}{-11}$$

$$n < -2$$