

INECUACIONES LINEALES**PRÁCTICA**

I. Parte: Resuelva las siguientes inecuaciones. Exprese los resultados en desigualdad, notación de intervalo y hacer la gráfica.

1) $7x - 8 < 4x + 7$

2) $5x - 21 \geq 3x + 5$

3) $12 - y \geq 2(9 - 2y)$

4) $4(y + 1) - 7 < -9 - 2y$

5) $\frac{n}{-2} > 4$

6) $\frac{z}{-10} \leq 3$

7) $-5t < -10$

8) $-20m \geq 100$

9) $3 - m < 4(m - 3)$

10) $6(5 - 2k) \geq 6 - 8k$

11) $-2 - \frac{b}{4} \leq \frac{1+b}{3}$

12) $\frac{t-2}{5} + 2 > \frac{t}{3}$

13) $-4 < 5t + 6 \leq 21$

14) $-2 \leq 4r - 14 < 2$

15) $\frac{q}{7} - 3 > \frac{q-4}{3} + 1$

16) $\frac{p}{3} - \frac{p-2}{2} \leq \frac{p}{4} - 4$

17) $\frac{2x}{5} - \frac{1}{2}(x - 3) \leq \frac{2x}{3} - \frac{3}{10}(x + 2)$

18) $\frac{2}{3}(x + 7) - \frac{x}{4} > \frac{1}{2}(3 - x) + \frac{x}{6}$

19) $-4 \leq \frac{9}{5}x + 32 \leq 68$

20) $2 \leq \frac{4}{5}z + 6 < 18$

21) $-20 < \frac{5}{2}(4 - x) < -5$

22) $24 \leq \frac{2}{3}(x - 5) < 36$

23) $16 < 7 - 3x \leq 31$

24) $19 \leq 7 - 6x < 49$

25) $-8 \leq -\frac{1}{4}(2 - x) + 3 < 10$

26) $0 < \frac{1}{3}(4 - x) - 10 \leq 16$

27) $0.1(x - 7) < 0.8 - 0.05x$

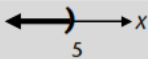

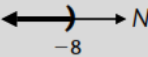
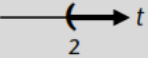
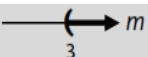
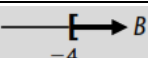
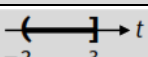
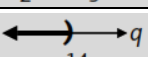
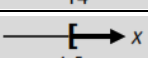
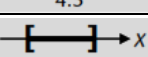
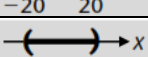
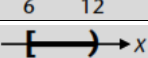
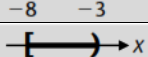
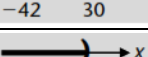
28) $0.4(x + 5) > 0.3x + 17$

29) $0.3x - 2.04 \geq 0.04(x + 1)$

30) $0.02x - 5.32 \leq 0.5(x - 2)$



Respuestas impares:

Problema	Desigualdad	Intervalo	Gráfica
1) $7x - 8 < 4x + 7$	$x < 5$	$(-\infty, 5)$	
3) $12 - y \geq 2(9 - 2y)$	$y > 2$	$[2, +\infty)$	
5) $\frac{n}{-2} > 4$	$n < -8$	$(-\infty, -8)$	
7) $-5t < -10$	$t > 2$	$(2, +\infty)$	
9) $3 - m < 4(m - 3)$	$m > 3$	$(3, +\infty)$	
11) $-2 - \frac{b}{4} \leq \frac{1+b}{3}$	$b \geq -4$	$[-4, +\infty)$	
13) $-4 < 5t + 6 \leq 21$	$-2 < t \leq 3$	$(-2, 3]$	
15) $\frac{q}{7} - 3 > \frac{q-4}{3} + 1$	$q < -14$	$(-\infty, -14)$	
17) $\frac{2x}{5} - \frac{1}{2}(x - 3) \leq \frac{2x}{3} - \frac{3}{10}(x + 2)$	$x \geq 4.5$	$[4.5, +\infty)$	
19) $-4 \leq \frac{9}{5}x + 32 \leq 68$	$-20 \leq x \leq 20$	$[-20, 20]$	
21) $-20 < \frac{5}{2}(4 - x) < -5$	$6 < x < 12$	$(6, 12)$	
23) $16 < 7 - 3x \leq 31$	$-8 \leq x < -3$	$[-8, -3)$	
25) $-8 \leq -\frac{1}{4}(2 - x) + 3 < 10$	$-42 \leq x < 30$	$[-42, 30)$	
27) $0.1(x - 7) < 0.8 - 0.05x$	$x < 10$	$(-\infty, 10)$	
29) $0.3x - 2.04 \geq 0.04(x + 1)$	$x \geq 8$	$[8, +\infty)$	