

Solving Linear Inequalities

Directions: Solve problems 1-20. For problems 21-25, create an inequality that satisfies the condition.

1. $x+6<14$

2. $3a\geq 18$

3. $2y-5\leq 11$

4. $7m+4>25$

5. $-4p<20$

6. $5n-3\geq 17$

7. $2(x+3)<12$

8. $-3(a-2)\geq 9$

9. $4r-7<2r+5$

10. $6y+2\geq 3y+17$

11. $-2x+5>13$

12. $-5m-4\leq 16$

13. $-3(2p-1)<9$

14. $8-2n\geq 20$

15. $-3<x+2\leq 5$

16. $-6\leq 2a<10$

17. $5(q-1)>2q+7$

18. $-4(t+3) \leq 8$

19. $7 - 2(x-1) > 15$

20. $3(2b-5) \leq 9$

21. Create an inequality with solution $x < 6$.

22. Create an inequality that requires reversing the inequality symbol and has solution $x \geq -4$.

23. Create a compound inequality with solution $-2 < x \leq 5$.

24. Create an inequality whose graph has a closed circle at -3 and shades left.

25. Create an inequality with variables on both sides and solution $x > 2$.