

Solving Linear Inequalities

Solve the following inequalities:

1. $x - 3 > 10$

2. $x + 1 < 0$

3. $5 > x - 7$

4. $2x + 1 \leq 6$

5. $3x - 4 > 5$

6. $10 \leq 2x - 6$

7. $5x < x + 1$

8. $2x \geq x - 3$

9. $4 + x < -4$

10. $3x + 1 < 2x + 5$

11. $2(x + 1) > x - 7$

12. $7 < 15 - x$

13. $9 > 12 - x$

14. $4 - 2x \leq 2$

15. $3(x - 1) < 2(1 - x)$

16. $7 - 3x < 0$

17. $\frac{x}{3} < -1$

18. $\frac{2x}{5} > 3$

19. $2x > 0$

20. $\frac{x}{4} < 0$

21. The height of the picture has to be greater than the width.

Find the range of possible values of x .



height
 $2(x + 1)$

width
 $(x + 7)$