

Solving Inequalities

A3

*Copy problems onto your own paper and show work.***Graph each inequality on a number line.**

1. $x < 4$

2. $x \geq -3.5$

Solve for x . Give answers in simplest form—no decimals. Graph the solutions on number lines.

3. $\frac{1}{2}x + 4 \leq 7$

4. $-x + 5 \geq 6$

5. $4 - 2x \leq 0$

6. $-3x + 5 < -1$

7. $7 - 9x < 12$

8. $3x - 1 \leq 2x + 8$

9. $7x + 9 \leq 10x - 12$

10. $4.7 - 2.1x > -7.9$

11. $\frac{5}{4}x - \frac{3}{4} < \frac{5}{6}x + \frac{1}{2}$

12. $2(x - 3) < 6(x - 4) + 7$

13. $5(x - 2) \geq -4(2x + 7) + x$

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