

Ready, Set, Go!

Ready

Topic: Solve inequalities

Solve the following inequalities for x .

1. $2x - 9 < 3$
2. $4x - 3 > 13$
3. $6x - 4 < 26$

Topic: Create and solve the equations for the following problems.

4. Virginia's Painting Service charges \$10 per job and \$0.20 per square foot. If Virginia earns \$50 for painting one job, how many square feet did she paint at the job?
5. Renting the ice-skating rink for Dayne's birthday party costs \$200 plus \$4 per person. If the cost was \$324, how many people were at Dayne's birthday party?

Set

Topic: Solve inequalities

Solve each inequality. Write the solution as an inequality.

6. $x + 15 < 12$
7. $x - 4 \geq 13$



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8. $9x > -\frac{3}{4}$

9. $x - 12 \geq 80$

10. $3x - 7 \geq 3(x - 7)$

Solve each inequality and graph the solution on the number line.

11. $x - 2 \leq 1$

12. $x - 8 > -20$

Solve each inequality. Write the solution as an inequality and graph it.

13. $3x \leq 6$

14. $\frac{x}{5} > -\frac{3}{10}$

15. $-10x > 250$

16. $\frac{x}{-7} \geq -5$

Solve each multi-step inequality.

17. $x - 5 > 2x + 3$



18. $2(x - 3) \leq 3x - 2$

19. $\frac{3(x-4)}{12} \leq \frac{2x}{3}$

Go

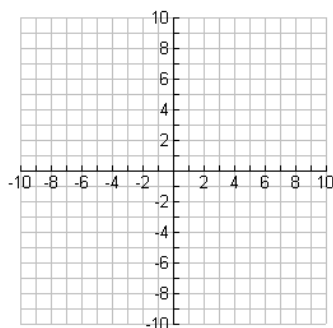
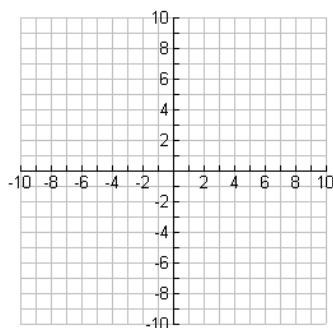
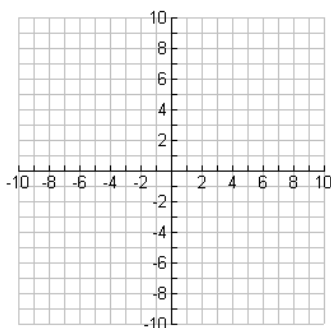
Topic: Solve systems of linear equations

**Solve linear equations and pairs of simultaneous linear equations (simple, with a graph only).
Justify the solution numerically.**

20. $y = -x + 5$
 $-x + y = 1$

21. $x + 2y = 8$
 $5x + 2y = 0$

22. $3x + 2y = 12$
 $4x - y = 5$



Need Help? Check out these related videos:

<http://www.khanacademy.org/math/algebra/solving-linear-inequalities/v/equations-and-inequalities>

<http://www.khanacademy.org/math/algebra/solving-linear-equations/v/solving-for-a-variable>

<http://www.khanacademy.org/math/algebra/systems-of-eq-and-ineq/v/solving-linear-systems-by-graphing>

