Ready, Set, Go!



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Ready

Topic: Solve inequalities, create and solve equations.

Solve the following inequalities for x.

1.
$$2x - 9 < 3$$

$$2.4x - 3 < 13$$

3.
$$6x - 4 < 26$$

4.
$$3x - 5 \ge 10$$

Create and solve the equations for the following problems.

- 5. 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?
- 6. 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.

7.
$$x + 15 < 12$$

8.
$$x - 4 \ge 13$$

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

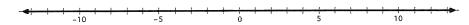
10.
$$3x - 7 \ge 3(x - 7)$$

11.
$$x - 12 \ge 80$$

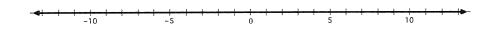
Getting Ready 1.9

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

12. $x - 2 \le 1$

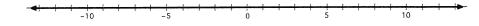


13. x - 8 > -20

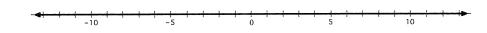


Solve each inequality. Write the solution as an inequality and graph it.

14. $3x \le 6$



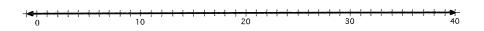
15. $\frac{x}{5} > -\frac{3}{10}$



16. -10x > 150



17. $\frac{x}{7} \ge -5$



Solve each multi-step inequality.

18.
$$x - 5 > 2x + 3$$

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

20.
$$2(x-3) \le 3x-2$$

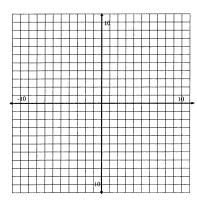
Topic: Solve systems of linear equations

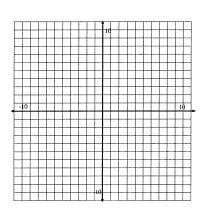
Solve linear equations and pairs of simultaneous linear equations (simple, with a graph only). Justify the solution numerically.

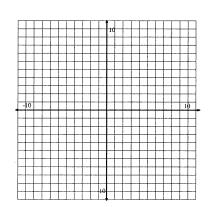
21.
$$\begin{cases} y = -x + 5 \\ -x + y = 1 \end{cases}$$

$$22. \begin{cases} x + 2y = 8 \\ 5x + 2y = 0 \end{cases}$$

$$23. \begin{cases} 3x + 2y = 12 \\ 4x - y = 5 \end{cases}$$







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