Ready, Set, Go!

SCHOOL SPEED LIMIT 2x=(320+8) SOLVE FOR X 7:00 AM TO 4:00 PM SCHOOL HOLINAYS

Ready

Topic: Inequalities

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Use the inequality 4 < 6 to complete each row in the table.

Apply each operation to the original inequality 4 < 6	Result	Is the inequality true or false?
1. Add 4 to both sides		
2. Add -4 to both sides		
3. Subtract 10 from both sides		
4. Multiply both sides by 4		
5. Divide both sides by 2		
6. Multiply both sides by -3		
7. Divide both sides by -2		

In general, what operations, when performed on an inequality, reverse the inequality?

Set

Topic: Solve literal equations

Solve for the indicated variable.

- 8. Solve the following equation to isolate *F*: $C = \frac{5}{9}(F 32)$
- 9. For $V = \frac{1}{3}\pi r^2 h$, rewrite the formula to isolate the variable h.
- 10. The area formula of a regular polygon is $A = \frac{1}{2}Pa$. The variable a represents the apothem and P represents the perimeter of the polygon. Rewrite the equation to highlight the value of the perimeter, P.

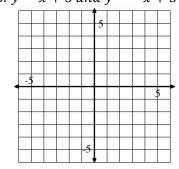
- 11. The equation y = mx + b is the equation of a line. Isolate the variable m.
- 12. The equation y = mx + b is the equation of a line. Isolate the variable x.
- 13. Ax + By = C is the standard form for a line. Isolate the equation for x.
- 14. Ax + By = C is the standard form for a line. Isolate the equation for y.

Go

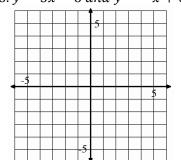
Topic: Solve systems of linear equations

Solve linear equations and pairs of simultaneous linear equations (simple, with a graph only) by graphing both lines and finding where they intersect. Justify the solution numerically.

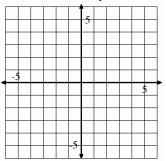
15. y = x + 3 and y = -x + 3



16. y = 3x - 6 and y = -x + 6



17. 2x = 4 and y = -3



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

 $\underline{http://www.khanacademy.org/math/algebra/systems-of-eq-and-ineq/v/solving-linear-systems-by-graphing}$