Practice:

-8x = 16 36 = 18x 3=  = -3

Check with substitution… and you’ll always know your answer is right!

Substitute you solution into the equation. Both sides should have the same value.

 *Check*

 = 6 Left Side Right Side

Solve and Check:

 = 3 -6 =  *7p*

For the month of January, the average temperature in Edmonton is ⅓ the average afternoon temperature in Yellowknife. The average afternoon temperature in Edmonton is -8°C. What is the average temperature in Yellowknife?

VIDEO: <http://www.youtube.com/watch?v=CljQq_mdtqg&feature=em-upload_owner#action=share>

**Math 8 Unit 10: Solving Linear Equation**

10.1 🡪 Modeling and Solving One-Step Equations

Try these by isolating the variable using the opposite operation:

 *84*= 12*d* -5*b*  = -45 6*f*  = -12 = 6

Perform the opposite operation on both sides of the equal sign. Keep it balanced!!!

Isolate the variable by using the opposite operation:

 = 6 The opposite of dividing by -2 is multiplying by -2

Try These: Solve by Inspection:

3*x*  = -12 *r* = -7 -3*t* = -36 *n* = -7

 -2 3

The goal: what does the unknown variable equal?

Solve by Inspection: - 2*w* = 6

Ask yourself: “What number multiplied by -2 equals 6? OR “What number results from dividing 6 by -2?”