**Rewriting an Equation part 2**

**Solving for a variable when given two different variables:**

Solve for **y**: -3x – 6y = -9

Ex (1): -3x – 6y = -9 🡪 -3x – 6y = -9 🡪 -6y = 3x – 9 🡪 -6y = 3x – 9 🡪 y = 3x - 9

 +3x +3x -6 -6 -6

 Equation 🡪 Isolate -6y, add 3x on 🡪 New 🡪 Isolate y, divide 🡪 Answer

 Both sides Equation by -6 on both sides

Answer: y= 3x – 9 or y = 3x – 9 = -0.5x + 1.5

 -6 -6 -6

Practice: For all problems – Solve for y:

1. What is the first thing I should think about when solving this type of problem?
2. 7x + 2y = 19
3. -8 – 5y = 6x
4. 0.4y + 0.8x = 1.6
5. 10y = 40 – 60x