Agenda

Homework:

- Variables on both sides Worksheet

- Materials:
  – Notebook

DO NOW

- Complete the following problems on your DESK:

  1. SIMPLIFY
     -3(2x – 5)

  2. What is the decimal form of 3/8

Set Up Cornell Notes

- **Topic**: Equations with Variables on Both Sides

- **EQ**: How do you solve equations with Variables on BOTH sides of the equal sign?

Be sure to update your table of contents

How do you solve equations with variables on both sides?

1. Get rid of the variables on the side with the smaller coefficient by ADDING or SUBTRACTING

2. Simplify both sides of the equations if necessary (distributive property and/or combining like terms)

3. Solve the remaining One/Two Step Equation

Example: Variable on Both Sides

$3x + 2 = 1x - 4$

$-1x$ $-1x$

STEP 1: Which side has less x's?

$2x + 2$ -4

STEP 2 – get rid of those x's

STEP 3 - simplify

$- 2$ $- 2$

STEP 4 –get rid of # farthest away

$\dfrac{2x}{2}$ $\dfrac{-6}{2}$

STEP 5 – simplify

STEP 6 – divide

$x = -3$

STEP 7 – simplify
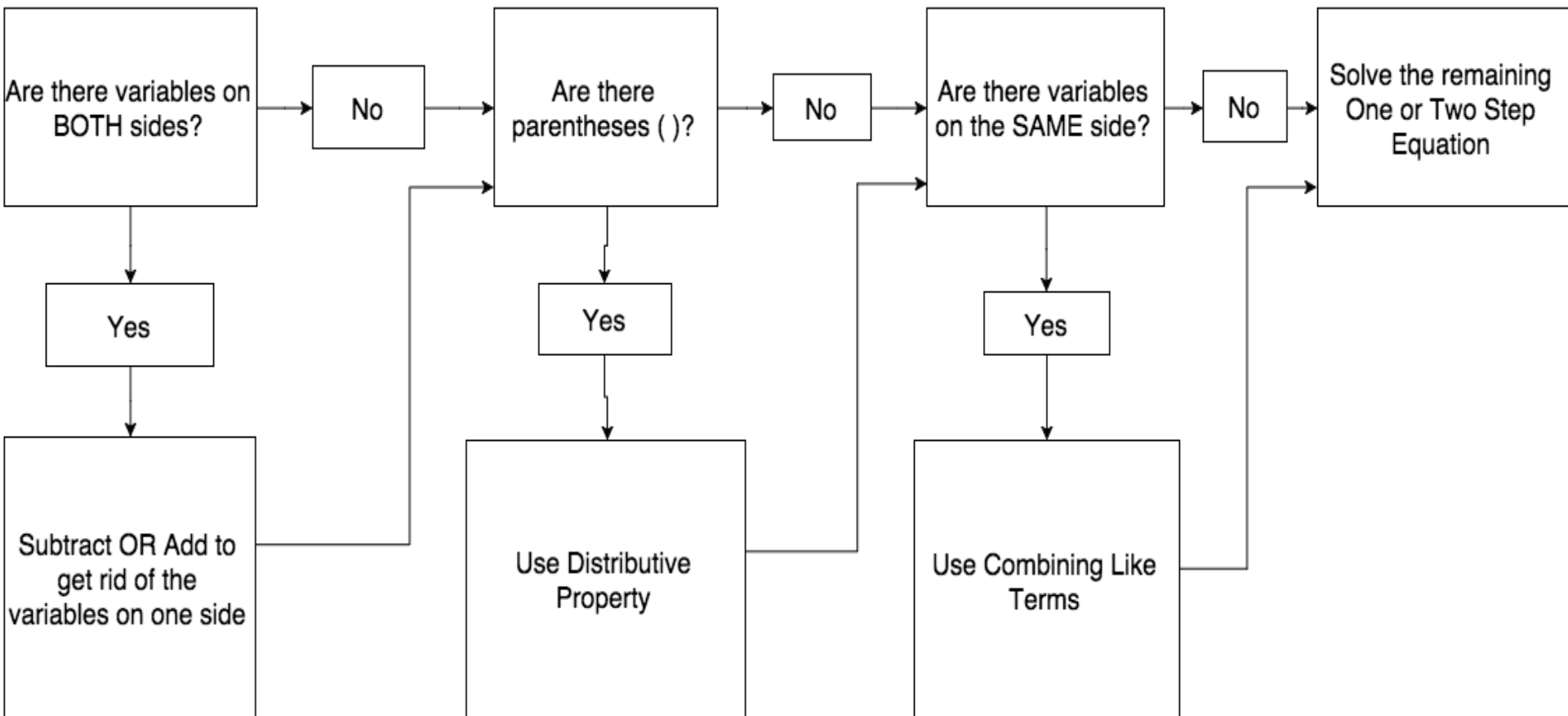
Solve the following

4x – 1 = x + 8	x – 7 = 2x + 3
2x + 5 = -3x – 10	6 – x = 3x – 6

Solving Equations Flow Map

Solving Equations Flow Map

MINI QUIZ

- Solve the DO NOW Problem on folder paper:

$$6x + 5 = x - 15$$