Solving Equations in Symbols

Today’s goal: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Please show how to solve these equations with pictures and symbols:

Pictures:

1).

Symbols:

2). Now just show the symbols method of solving:

Pictures:

3).

Symbols:

5

3

= 1.6

Pictures:

4).

Symbols:

**Take away**

**Take away**

7

2

= 3.5

When you have to flip both sides, how do you show it in symbols?

Pictures:

5).

Method A:

Method B:

Method C:

Usually, we’ll use Method \_\_\_\_ because in most problems, the last step is to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ both sides by something.

6). Just show the symbols method of solving:

For the rest of the equations, you may use algebra tiles to solve the problems, but please show your work in symbols.

7). 2x + 3 = 4x – 2

**Use the scrambled answers at the bottom of this page to check your work:**

8). 5 – 2x = **-** 3x 9). 2x + 1 = **-** 4

10). 2x + 1 = 5x 11). 4 – 3x = x + 5

12). **-** 2 + 4x – 1 = **-** x – 1 13). 5x – 1 = 3 – x + 3x

**Scrambled Answers for #7 – 13:** **-**5 0.4 $1.\overbar{3}$ 2.5 **-**2.5 $0.\overbar{3}$ **-**0.25

**(Cross them out as you use them up)**

Movies from Webflix

SCENARIO: Webflix has two services: a DVD-by-mail subscription and an instant streaming service. They used to have lots more movies available by DVD than online, but gradually they’re phasing out the DVD service and adding more movies online. For example, they currently have 8,342 comedies available by DVD, but that number is dropping by about 155 movies per month. Online, they currently have only 898 comedies, but that’s increasing by about 46 per month.

YOUR GOAL: When will they start to have more comedies online than by DVD?

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