Lesson # 74

Equations with Variables Both Sides

Date

Warmup

1. -2x + 10 = 4

X = _____

2. Calculate:

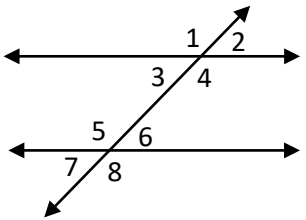
-6P - - 10P= _____

3P – 3P = _____

3. Calculate the value of <3:

<3 = 15x+-82

<4 = 7x + 108



Lesson #

Date

I. Variables on Each Side of an Equation

II. Volume of a Cube

I. Variables on Each Side of an Equation

$5x + 9 = 4x$

When variable terms are on both sides of the equation, move all the variable terms to the same side.

Solve and Check:

$-4x = -63 + 3x$

Solve and Check:

$-5x = 10 + -4x$

Solve and Check:

$-3x+-10=4x$

Solve and Check:

$-4x + -40 = -9x$

4. Solve and Check:

$4x = -9 + 7x$

5. Solve and Check:

$6x - 80 = -4x$

II. Variables and Numbers on Each Side of an Equation

$5x + 9 = 15 + 4x$

Solve and Check:

$-5x + 13 = -27 + 3x$

Solve and Check:

$-4x + 14 = -2x + 4$

6. Solve and Check:

$7x + 12 = 84 - 5x$

7. Solve and Check:

$9x + 25 = 3x + 73$

III. Multiple Variable Terms and Numbers on Each Side of an Equation

Solve and Check:

$-5x + 2x + 14 = 4x + -28$

Solve and Check:

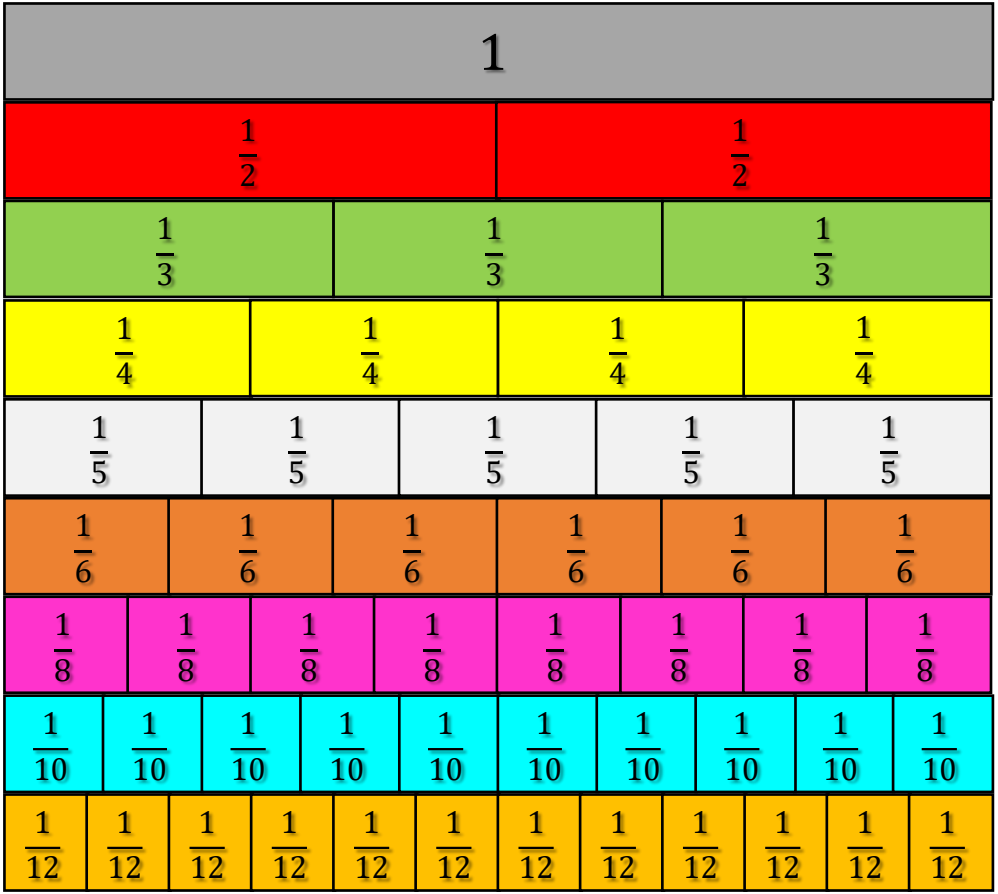
$-1x + 14 + 5x = -3x + 28$

8. Solve and Check:

$4x + 9x + 15 = 7x + 39$

9. Solve and Check:

$6x + 7 + 4x = 2x + -73$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