Module 0a: Algebra Review

Math Practice(s):

- -Attend to precision
- -Look for & express regularity in repeated reasoning

Learning Target(s):

What is the process for solving a linear equation?

Homework:

HW #1: 0a #1-9

Solving Linear Equations

- distributive clear property to any grouping symbols. 1. Use the
- properties of equality 2. Use the addition and subtraction to get all side terms containing the variable on One of the equation and all other terms on terms along the way. combining like the other side,
- isolate 3. Use the multiplication and division property of equality to the variable.
- substituting 4. Check the solution by _ into the original equation.

Solve the equation.

1.
$$(2x)+(4x)=90$$

$$\frac{6\times 90}{9}$$

2.
$$(4x+5)+(3x+8)=90$$

$$7x + 13 = 90$$

$$\sqrt{\chi} = \frac{77}{7}$$

3.
$$(2x)+(5x+5)=180$$

$$\frac{7x}{7} = \frac{175}{7}$$

4.
$$(x+8)+(x-3)+(45)=180$$

$$2x + 50 = 180$$

$$\frac{2}{2}$$
 = 130

5.
$$(2x-8)+(3x-12)=60$$

 $5x - 20 = 60$
 $+20 + 20$
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$$\frac{2}{2} = \frac{2}{2} \times \frac{2}{2}$$

$$X = 1$$

$$6.4/-2=5x+10
-4x
-10
-12 = 1x

-12 = 1x$$

8.
$$5x-25=3x+5$$

 $-3x$
 $+25$
 $+25$
 $+25$
 $\times = 30$
 $\times = 15$

$$10. (28)+2(2x-2)=6x$$

$$28+4x-4=6x$$

$$-4x$$

$$-4x$$

$$24=2x$$

$$12=x$$

$$(x=12)$$