

Created by Mr. Lischwe

## Warmup 5/ (The first prime number)

Solve for the given variable:

1) Solve for x:  $x - 4 = 2y$

2) Solve for y:  $x - 4 = 2y$

## QUIZ CORRECTIONS

- There are several of you who didn't complete your corrections.
  - To complete them, you need to come in at **LUNCH** or **POWER UP** or even **AFTER SCHOOL** (Tuesday or Thursday)
- There are several of you who didn't even turn your quiz back in. I need them back!!!

## Volume Quiz Retake Deadline

- FRIDAY!
- (Retake Wednesday is tomorrow – let me know TODAY if you want to be on the list)

## ALEKS – ENRICHMENT TOMORROW IF YOU DON'T COMPLETE IT!

1<sup>st</sup> Period

Andrea – 30  
 Saleban – 18  
 Joseph – 35  
 Jackson – 29  
 Connor – 23  
 Najma – 29  
 Colleen – 27  
 May – 30  
 Sam – 35  
 Hanga – 30

5<sup>th</sup> Period

Selki – 16  
 Ana – 28  
 Troy – 76  
 Makhyah – 90  
 Sam – 61  
 Sydney – 59  
 Allison – 37  
 Camryn – 34  
 Brieanna – 60  
 Caroline – 39  
 Dayonna – 80  
 Alexandra – 18  
 Aza – 52

6<sup>th</sup> Period

Rachel – 30  
 Devin – 27  
 Kenya – 17  
 Axel – 18  
 Summer – 41  
 Viggo – 50  
 Jackson – 30

## IMPORTANT CONCEPT:

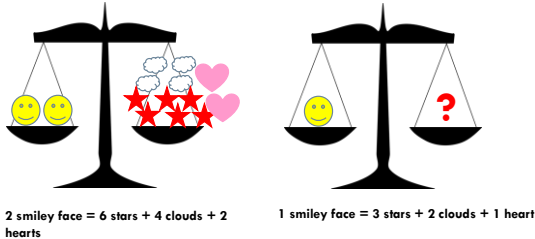
- You are **NOT** getting “ $y = \text{number}$ ”. You are just “rearranging” the equation.

## THIS SLIDE IS IMPORTANT

$$\begin{array}{r}
 4x \\
 + 2x \\
 \hline
 6x \\
 4 \\
 + 2 \\
 \hline
 6 \\
 4 \\
 + 2x \\
 \hline
 4 + 2x \quad (\text{or } 2x + 4)
 \end{array}$$

## THIS SLIDE IS IMPORTANT

If you divide both sides by a number, you don't just divide like terms – you divide **EVERYTHING**!



## SOLVE FOR X: (2-step)

We need x by itself. So...we need to get rid of **EVERYTHING** else on that side.

$$\begin{aligned} \square 5x - 10y &= 35 \\ \text{...and the 5.} \quad \text{That's the } -10y... \\ \square 5x - 10y &= 35 \\ &\quad +10y \quad +10y \\ 5x &= 35 + 10y \\ \frac{5x}{5} &= \frac{35}{5} + \frac{10y}{5} \\ x &= 7 + 2y \end{aligned}$$

Are we ready for 2-step ones???

- Solve for y:  $2y + 8 = 14x$   $y = 7x - 4$
- Solve for y:  $3x + 4y = 12$   
 $y = 3 - \frac{3}{4}x$  or  $y = -\frac{3}{4}x + 3$
- Solve for a:  $24 = -2a + 4b$   
 $-12 + 2b = a$  or  $2b - 12 = a$
- Solve for ☺:  $3☺ - 7 = 12⊗$   
 $☺ = 4⊗ + \frac{7}{3}$

## Exit Ticket Corrections

□ If you got them all, you may go straight to the challenge problems. If you did not get them all, you need to correct them, then ask for the "redo" when you're ready.

- Solve for a:  $a - 4 = 2b$
- Solve for y:  $3y = -4x + 9$
- Solve for p:  $2p + 6q = 8$

Solve both for x.

1) Solve for x:

$$\square 12 + 3x = 30$$

2) Solve for x:

$$\square 12y + 3x = 30$$

3) Write a paragraph about how the methods for doing #1 and #2 are similar and how they are different.

GRAPHING SHEET, MARKER, ERASER

What is the slope?

$$y = 4x - 9$$

**4**

What is the slope?

$$y = 4x - 9$$

**4**

What is the slope?

$$\frac{1}{2}x - \frac{1}{4} = y$$

**$\frac{1}{2}$**

What is the slope?

$$y = 8 - 2x$$

**-2**

What is the slope?

$$y - 3x = 10$$

$$y = 3x + 10$$

**3**

What is the slope?

$$4y = 8x - 20$$

$$y = 2x - 5$$

**2**

What is the slope?

$$-4y = 5x + 60$$

$$y = -\frac{5}{4}x - 15$$

$$-\frac{5}{4}$$

What is the y-intercept?

$$-3y = 12x - 3$$

$$y = -4x + 1$$

$$1$$

What is the slope?

$$15 = 2y - 20x$$

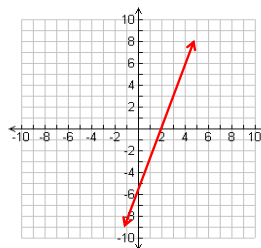
$$7.5 + 10x = y$$

$$10$$

Graph:

$$42 + 7y = 21x$$

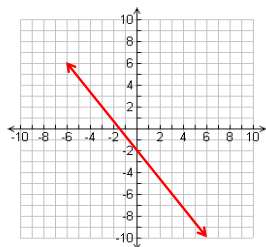
$$y = 3x - 6$$



Graph:

$$-6y - 8x = 12$$

$$y = -2 - \frac{4}{3}x$$



DUE TOMORROW:

- ☐ Solving Equations with >1 Variable Worksheet
- ☐ ALSO LINE DESIGNS!!!