

# E-Q-U-A-T-I-O-N Lab QUIZ

Visit each station in this lab, in any order. Have your lab sheet checked and signed before moving on to another station.

Station	Teacher's signature/comments
E	
Q	
U	
A	
T	
I	
O	
N	
Lab Complete	

## E-Q-U-A-T-I-O-N Lab

Station	Description
E	Simplify these expressions
Q	Solve these equations
U	Add these numbers
A	Translate these phrases
T	Subtract these numbers
I	Match equations to descriptions.
O	Create four equations using the four operations and solve.
N	Identify the coefficient for given equations.

# STATION E

Simplify these expressions

$$6x + 3 + 2x - 4$$

$$-1x - 13 - 2y + 3 + x$$

Explain how you know what to do.

Explain what it means to simplify an expression

# STATION Q

Solve these equations.

a.  $5x + 1 = 21$

b.  $y - 3 + y = 15$

c.  $-y = 5$

d.  $\frac{2}{4}x = 16$

# STATION U

Add these numbers

$$-\frac{1}{5} - \frac{5}{5}$$

$$-\frac{8}{14} + \frac{13}{14}$$

$$19 + (-21)$$

# STATION A

Translate these sentences

Four less than a number  $y$

Two times a number  $y$  plus 12

The difference of one and a number  $y$

The product of 11 and a number  $y$

The quotient of 12 and a number  $p$

# STATION T

-  $19 - 14$

-  $11 - (-8)$

-  $58 - 38$

$15 - 65$

# Station I

Match each equation with its description. Explain/show how you know. There may be more than one match for each item

## Equations

1.  $x = -4$

2.  $y = \frac{1}{3}x + 1$

3.  $y = 2$

4.  $x + 2y = 5$

## Descriptions

- a. This equation has a coefficient of 1
- b. This equation requires division and subtraction and a reciprocal to solve
- c. This equation is solved

# STATION 0

Create four equations using the four operations and solve

1.

2.

3.

4.

# STATION N

Identify the coefficients for all variables

$$y = -3x + 6$$

$$-4x + y = -8$$

$$x + 3 = 0$$