

TODAY'S AGENDA: Dec. 10th - Dec. 14th

- Work on Khan Academy Assignments:
 - > 2nd Quarter, there are NEW Assignments
 - > **Mid-Term will be Next Week**
- Today's Objective: Linear Equations

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Assignments			
DUE IN THE NEXT 7 DAYS	CLASS	DUE DATE & TIME	STATUS
★ Exponents (basic)	Per. 7 AB	Sunday, 11:59 PM	Start
★ Multiply and divide whole numbers by 10, 100, ...	Per. 7 AB	Sunday, 11:59 PM	Start
★ Multiply and divide decimals by 10	Per. 7 AB	Sunday, 11:59 PM	Start
★ Powers of ten	Per. 7 AB	Sunday, 11:59 PM	Start
★ Multiply and divide by powers of 10	Per. 7 AB	Sunday, 11:59 PM	Start
★ Powers of fractions	Per. 7 AB	Sunday, 11:59 PM	Start

$$6(-2g-1) = -(13g+2)$$

$$\begin{array}{r} -12g - 6 \\ \hline \end{array} = \begin{array}{r} -13g - 2 \\ +12g \\ \hline \end{array}$$

$$\begin{array}{r} -6 \\ +2 \\ \hline \end{array} = \begin{array}{r} -g - 2 \\ \hline \end{array}$$

$$\begin{array}{r} -4 \\ \hline \end{array} = \begin{array}{r} -g \\ \hline \end{array} \quad g = 4$$

$$16 - 2r = -3r + 6r + 1$$

$$16 - 2r = 3r + 1$$

$$16 = 5r + 1$$

$$-1 = 5r$$

$$15 = 5r$$

$$3 = r$$

$$16 - 2T = \frac{3}{2}T + 9$$

Letters

$$+ \frac{2}{2}T$$

$$\begin{array}{r} 16 \\ -9 \\ \hline 7 \end{array} = \begin{array}{r} \frac{7}{2}T + 9 \\ -9 \\ \hline \frac{7}{2}T \end{array}$$

$$\frac{7}{\frac{7}{2}} = \frac{\cancel{7}T}{\cancel{7}/2}$$

$$2 = T$$

$$9e + 4 = -5e + 14 + 13e$$

$$9e + 4 = 8e + 4$$

$$\begin{array}{r} -8e \\ \hline \end{array}$$

$$1e + 4 = 4$$

$$\begin{array}{r} -4 \\ \hline \end{array}$$

$$e = 0$$

$$5c + 16.5 = 13.5 + 10c$$

Letter → $-5c$

$$16.5 = 13.5 + 5c$$

-13.5 number

$$3.0 = 5c$$

1. Ariana A.
2. Jayshawnna C.
3. Michael C.
4. Derryl F.
5. Aron F.
6. Joshua G.
7. Derick H.
8. Rennis H.
9. Henri N.
10. Briana O.
11. Nelson R.
12. Moises R.
13. Chris S.
14. Cyerra T.

Two-Step Equations

- Goal is to get
variable (letter)
equal to a number.

Solve for h .

$$\frac{h}{6} - 1 = -3$$

Division

$$h = \boxed{24}$$

$+$ $-$
 ~~$*$~~ \div

$$\begin{array}{r} \frac{h}{6} - 1 = -3 \\ \hline \frac{h}{6} = -4 \\ \hline h = -24 \end{array}$$

Solve for m .

$$2 = \frac{m}{2} - 7$$

$$m = \boxed{}$$

$$\begin{array}{r} 2 = \frac{m}{2} - 7 \\ + 7 \quad \leftarrow \\ \hline 9 = \frac{m}{2} \\ * 2 \quad \leftarrow \\ \hline 18 = m \end{array}$$

Solve for q .

$$3(q - 7) = 27$$

$$q = \boxed{}$$

$$\begin{array}{r} 3(q - 7) = 27 \\ \hline 3 \\ q - 7 = 9 \\ \hline + 7 \\ \hline q = 16 \end{array}$$

$$\begin{array}{r} 3(q - 7) = 27 \\ 3q - 21 = 27 \\ \hline + 21 \\ \hline \end{array}$$

$$\begin{array}{r} 3q = 48 \\ \hline 3 \\ q = 16 \end{array}$$

$$3(9 - 7) + 4 = 21$$

Solve for z .

$$42 = -7(z - 3)$$

$$z = \boxed{}$$

Solve for j .

$$\frac{j}{-2} + 7 = -12$$

$$j = \boxed{}$$

Solve for k .

$$\frac{k}{4} + 3 = 14$$

$$k = \boxed{}$$

Solve for t .

$$2(t + 1) = 10$$

$$t = \boxed{}$$

Number of Solutions to Equations:

No Solution:

- x terms are the same
- *Number* terms are different

One Solution:

- x terms are different
- *Number* terms can be anything

Infinite Solutions:

- x terms are the same
- *Number* terms are the same

$$\frac{6 \times 10^3}{3 \times 10^3}$$

$$2 \times 10^2$$

$$\frac{7 \times 10^9}{3 \times 10^8}$$

$$2 \cdot \cancel{3} \times 10^1$$

$$2 \times 10^1 = \textcircled{20}$$