## 0-4 Solving Linear and Multi-Step Equations

## 28\&29Aug

Bellwork 29Aug2019

1) $\frac{5}{6} \square^{2}$ Find the sum, difference, product, and ${ }^{-}{ }_{9}$ quotient
2) $5 x$ 25x $=12$

3) Explain in words how you would solve this problem:

$$
\begin{aligned}
& 4+7 \cdot(-3) \cdot \\
&-126+4=-122
\end{aligned}
$$

29Aug2019 Wed
0-4: Linear and Multi-Step Equations

$$
1-4 v+2 v=3
$$

(1) Combine like terms

$$
1-2 v=3
$$

(2) Isolate variable by UNDOING operations

$$
\begin{array}{ll}
1-2 \cdot v=3 & \\
-2 \cdot v=2 & \frac{1-2 v}{2}=\frac{3}{2} \\
v=-1 & \frac{1}{2}-\frac{2}{2} v=\frac{3}{2} \\
& \frac{1}{2}-v=\frac{3}{2}-\frac{1}{2} \\
-\frac{1}{2} \\
& -v=\frac{2}{2} \\
& v=1
\end{array}
$$

Today:

1) One whiteboard per table
2) Write down the problem from smartboard in your own notes, solve yourself
3) Answer question on whiteboardEVERYONE in group must agree (agree with the logic, maybe it's not what you have written, but make sure both are justified.)
4) Hold up work \& answer

$$
\begin{aligned}
c+6-3 c & =-12 \\
6-2 c & =-12 \\
\frac{-2 c}{-4} & =\frac{-18}{-2} \\
\frac{18}{2} \quad c & =9
\end{aligned}
$$

$$
\begin{aligned}
& -18=-3 p-2+3 \\
& -18=-3 p+1 \\
& -19=-3 p \\
& \frac{19}{3}=p
\end{aligned}
$$

$$
\begin{array}{cc}
-4(2+3 a)=-64 \\
-8-12 a=-64 & \frac{-4}{-4}(2+3 a)=-64 \\
-12 a=-56 & 2+3 a=16 \\
a=\frac{56 \div 4}{17} \div 4 & 3 a=14 \\
=\frac{14}{3} & a=14 / 3
\end{array}
$$

$$
\begin{aligned}
24-6 x & =2(5-6 x) \\
24-6 x & =10-12 x \\
6 x & =-14 \\
x & =-\frac{14}{6} \\
x & =\frac{24-6 x}{3}
\end{aligned} \quad \frac{12-3 x}{}=\frac{2(5-6 x)}{2}
$$

## 15 minutes to work on homework

## Practice Real World

