## Solving Multistep Equations

Directions: Before we are ready to solve linear systems of equations, we will spend some time reviewing how to solve multi-step equations in one variable. Walk through Examples 1 - 4, then solve the equations below in your notebook. Show all work. This assignment is worth 10 points and student that complete and give to the sub this week will warn a bonus 5 points!

Example 1 Solve the equation $3 x+6=-8$


Example 3 Solve the equation $4(x-3)+6=18$


Example 2 Solve the equation $\frac{1}{4} x+5=13$


Example 4 Solve the equations $\frac{1}{2}(x+2)=7$

$$
\begin{gathered}
2 \cdot \frac{1}{2}(x+2)=7 \cdot 2 \\
\frac{x+2=14}{-2-2}
\end{gathered}
$$

1.) $2 x+7=15$
2). $3 x-1=8$
3.) $6 x+4=38$
4.) $14-2 x=6$
5). $8 x-2=38$
6.) $\frac{1}{3} x-5=-1$
7.) $\frac{1}{2} x+13=20$
8.) $\frac{4}{3} x+3=23$
9.) $3(x-2)=18$
10.) $12(2-x)=6$
11.) $4(x+3)=36$
12.) $5(x+1)=45$
13.) $-(x+4)=-8$
14.) $9 / 2(x+3)=27$
15.) $-2(3-2 x)=34$
16.) $2 x+(x+1)=-2$
17.) $4 x-3(x-2)=21$
18.) $\frac{1}{4}(-2+x)=12$
19). $\frac{1}{6}(x+3)=8$
20.) $\frac{2}{5}(3-x)=10$

