Solving	2	step
equation	nc	

Getting rid of fractions first

1. 
$$9 = \frac{x}{2 + 4}$$

$$(2) 5 = \frac{x}{2}$$

2. (2) 
$$9 = \frac{10x}{2} + 4(2)$$
  
 $18 = 1x + 8$   
 $-8 - 8$   
 $10 = x$ 

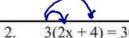
3. 
$$\frac{x}{-3} - 2 = 5$$

$$\frac{x}{+2} + 2$$

$$\frac{x}{-3} = 7(-3)$$

$$x = -21$$

4. 
$$(-3)$$
 $\frac{x}{3} - 2 = 5(-3)$ 
 $\begin{array}{r}
x + 6 = -15 \\
-6 - 6 \\
\hline
x = -21
\end{array}$ 



## Multi-Step Equations with distributive property (no negative coefficients)

- Do 2 with Distributive Property First
- Do 2 with Dividing First

Multi-Step Equations with distributive property (negative coefficients)

## 15x + 15 = 75 -15 - 15 15x = 60 15 15 (x=4)

3. 
$$3(5x-4) = \frac{48}{3}$$
  
 $5x-4 = 16$   
 $+4$   
 $x=4$   
 $5x = \frac{20}{5}$ 

1. 
$$-5(4x+4) = 80$$
  
 $-20x-20 = 80$   
 $+20$   
 $+20$   
 $-20x = 100$   
 $-20$   
 $-20$ 

3. 
$$-3(-4x-4) = 24$$
 $-3$ 
 $-4x-4 = -8$ 
 $+4$ 
 $+4$ 
 $-4x = -4$ 
 $-4$ 
 $-4$ 
 $-4$ 
 $-4$ 

$$\frac{6x + 12 = 30}{-12 - 12}$$

$$\frac{6x = \frac{18}{6}}{(x = 3)}$$

$$\frac{3x-2=13}{\frac{42}{3}x=\frac{15}{3}}$$

$$-20x + 16 = 76$$

$$-16 - 16$$

$$-20x - 60$$

$$-20$$

$$x= -3$$

4. 
$$\frac{2(-2x-3)=24}{2}$$

$$-2x-3=12$$

$$+3+3$$

$$-2x-\frac{15}{-2}$$

$$\chi = -7.5$$