

You need out your warm up, agenda, & HW

Homework: 2 step

Warm Up:

$$1) \frac{-8x}{-8} = \frac{72}{-8}$$

$$x = -9$$



$$2) \frac{6x}{6} = -7 \cdot 6$$

$$x = -42$$

$$\frac{9}{3}$$

Last night's homework

One Step Equations- Homework

1) $x + 8 = -203$

$$\begin{array}{r} -8 \quad + \quad - \\ \hline x + 8 \quad -203 \\ \hline x = -211 \end{array}$$

2) $x - 34 = -102$

$$\begin{array}{r} +34 \quad + \quad 34 \\ \hline x - 34 \quad -102 \\ \hline x = -68 \end{array}$$

3) $x = -42$

$$\begin{array}{r} -7 \quad - \quad 7 \\ \hline x = -42 \\ \hline x = 6 \end{array}$$

4) $\frac{1}{6}x = -5$

$$\begin{array}{r} \cdot 6 \quad \cdot 6 \\ \hline \frac{1}{6}x = -5 \\ \hline x = -30 \end{array}$$

5) $-2x = 24$

$$\begin{array}{r} -2 \quad - \quad 24 \\ \hline -2x = 24 \\ \hline x = -12 \end{array}$$

6) $x + 34 = -20$

$$\begin{array}{r} -34 \quad - \quad 34 \\ \hline x + 34 = -20 \\ \hline x = -54 \end{array}$$

Additional work shown on the right side of the page:

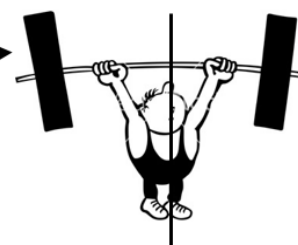
$$\begin{array}{r} + \quad - \\ \hline 34 \quad 102 \\ \hline 69 \\ 110 \quad 2 \\ - \quad 34 \\ \hline 68 \end{array}$$

$$\begin{array}{r} + \quad - \\ \hline 20 \\ 34 \\ \hline 54 \end{array}$$

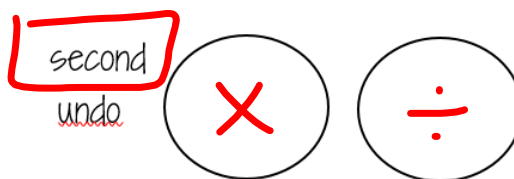
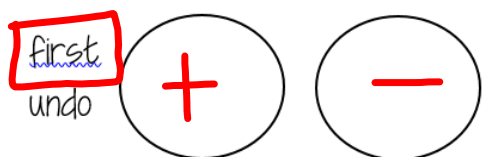
Two step Equations

D) Draw a line down the equals sign to divide it into 2 equal parts

*What you do to one side, you must do to the other!



2) Use inverse operations to undo and solve for the variable. Remember our goal is to get the variable BY ITSELF!



Practice!

1. $2x + 8 = 10$

① $\downarrow -8 \quad | -8$

② $\frac{2x}{2} = \frac{2}{2}$

$x = 1$

2) $4x - 3 = 13$

① $\downarrow +3 \quad | +3$

② $\frac{4x}{4} = \frac{16}{4}$

$x = 4$

3) $\frac{2}{7}x + 10 = 12$

① $\downarrow -10 \quad | -10$

② $\frac{2}{2} \cdot \frac{7}{7} x = \frac{2}{1} \cdot \frac{7}{2}$

$x = \frac{14}{2} = 7$

4. * $10 - k = -26$

5) $\frac{x}{12} + 15 = 30$

6) $9 = 14 + \frac{m}{2}$

①

$$\frac{1}{12}x + 15 = 30$$
$$\quad \quad \quad -15 \quad -15$$

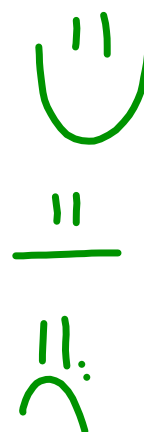
②

$$\frac{1}{12}x = 15$$
$$\frac{12}{12} \cdot \frac{1}{12}x = 15 \cdot \frac{12}{12}$$
$$x = 180$$

TOD

Name

$$2x + 5 = 15$$



Sit silently for the news

Two-Step Equations- Homework

1) $5x + 3 = 13$

2) $4 - a = -13$

3) $-2x - 5 = 25$

4) $\frac{3}{4}x + 2 = 12$

5) $-6x - 6 = 30$

6) $\frac{x}{2} + 3 = 9$