

Solving Two Step Equations

Why Equations?

Why do we use these weird variables?

Why not numbers?

Variables allow us to generalize situations.

So what?

Equations can help us avoid situations like this...

Why
Equations?
Why Variables?

So hopefully-this won't
happen...

Solving Equations

We have all solved simple one step equations in the past. You used inverse operations to do this.

Remember: + and – are inverse operations
x and ÷ are inverse operations

Solving two step equations

- To solve a two step equation, I use the order of operations backwards. Think of it as taking an expression apart.
- SADME (we leave the parenthesis off)

Solving Equations

Ex: $2x + 4 = 16$

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

$$2x = 12$$

$$x=6$$



We subtract 4
from each side



We divide
by 2

Solving Equations

A few for you to try:

$$4x+10=22$$

$$3x-4=18$$

Solving Equations

A few more:

$$2x+7=17$$

$$\frac{1}{2}x + 4 = 10$$

A few more

- $-3x+5=26$

$$\frac{x}{8} + 4 = 6$$

Any questions?

- Write down the most important thing you've learned today...