



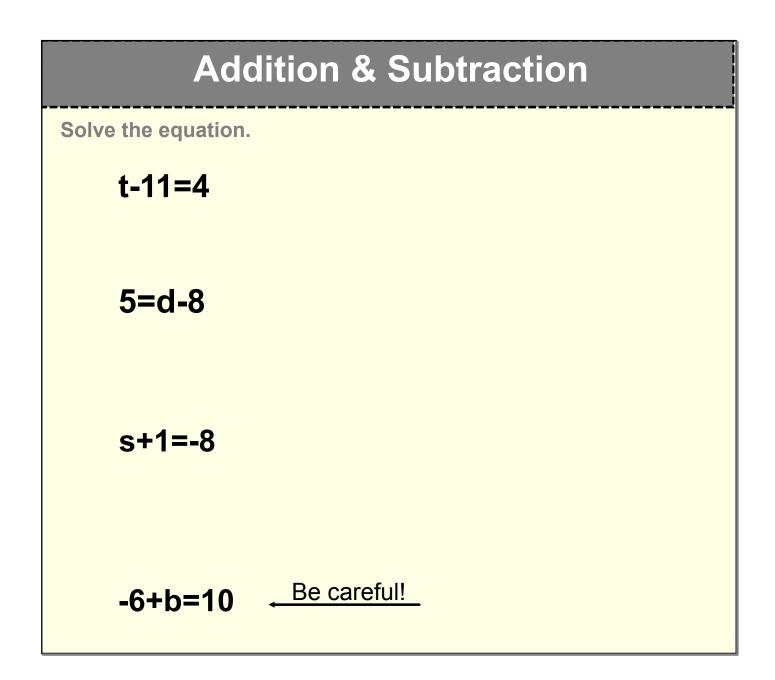
What You Need to Know:

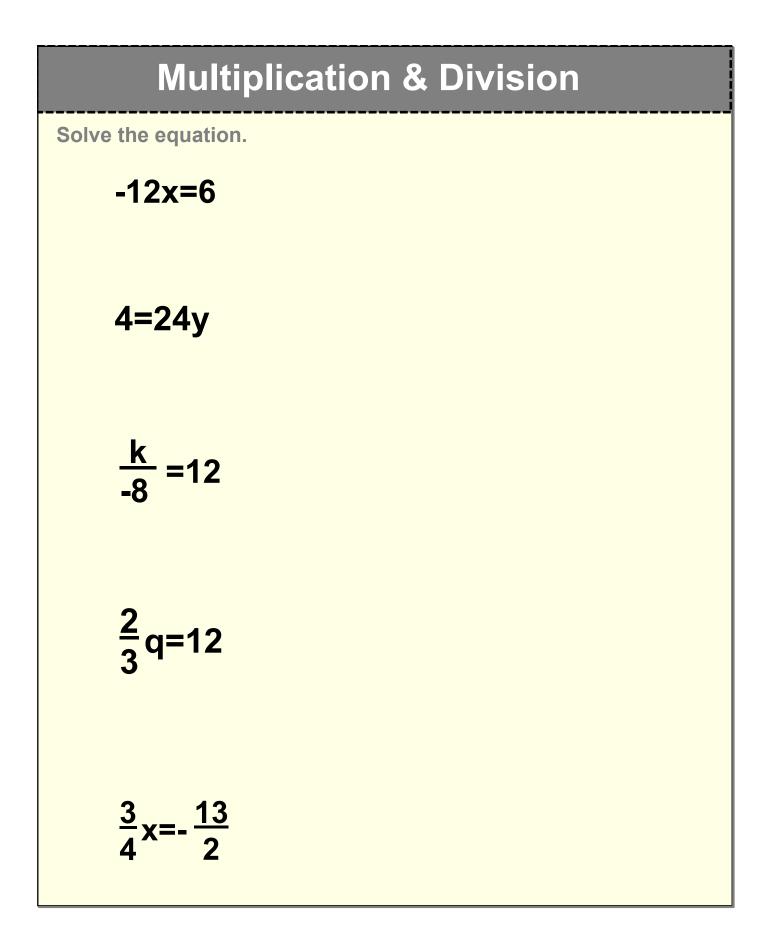
To solve an equation, you punish the variable-isolate it!

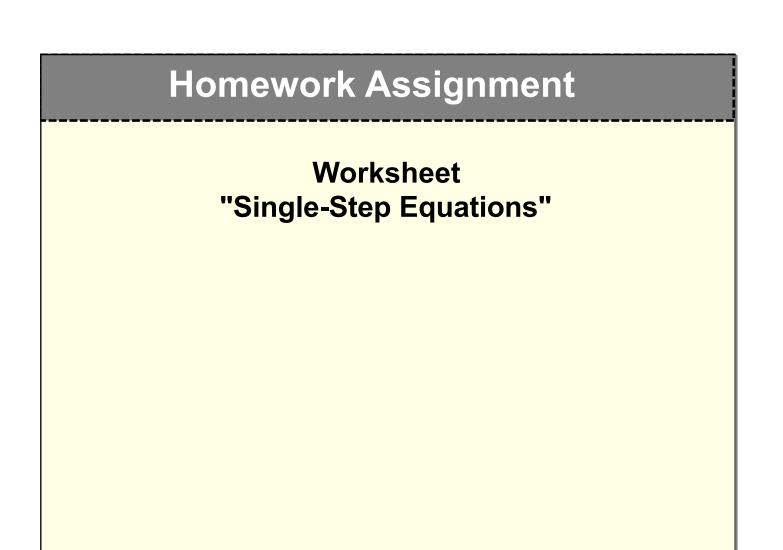
To isolate a variable, use the opposite operation!

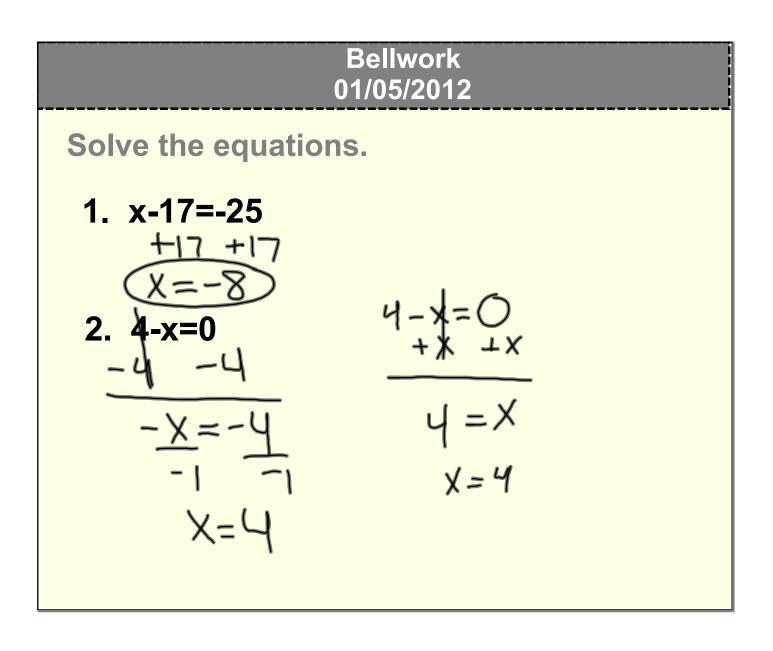
Solving an equation means finding an answer for the variable!

When Multiplying & Dividing: Negative*Negative=Positive Positive*Positive=Positive Positive*Negative=Negative







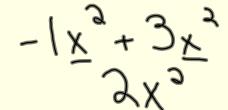




What You Need to Know:

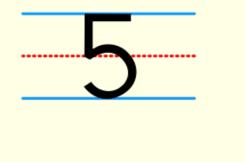
Distributive Property a(b+c)=ab+ac

Combining Like Terms means adding or subtracting terms with the same variable parts. ex: 3x+5x=8x



When there is more than one step to solving an equation, use the five step approach.

- **1. Distribution?**
- 2. Combine Like Terms?
- 3. Multiplication or Division?
- 4. Addition or Subtraction?
- 5. Check!



Multi-Step Equations

Solve the equation.	1. Distribution?
5y+8=-2 중 [*] ठ	 Combine Like Terms? Addition or Subtraction? Multiplication or Division?
<u>5y=-10</u>	5. Check!
59=-2	
$\frac{x}{4}$ -1=5	
4 + 1 + 1	
14:0.7	
(X=24)	
4x -8+ x =2	
5x-8=2	
5x=10	
(X=2)	
6-(b+1)=9	
B-b ₹=9	
-J-b=9	
10=4	
b = -4	
10(z-2)=1+4	
10=-20=1+4	
102-20=5	
$\frac{10}{10} = 25$	N
Z=2.5 3x+2(x+5)=15	14
3x+2x+10=15	
5x+10=15	
(X=1)	
2(f-7)=2f-14	
27-14-27-14	-14 = 16
All real #'s	Ø
IR	/
0	

Equation Word Problems

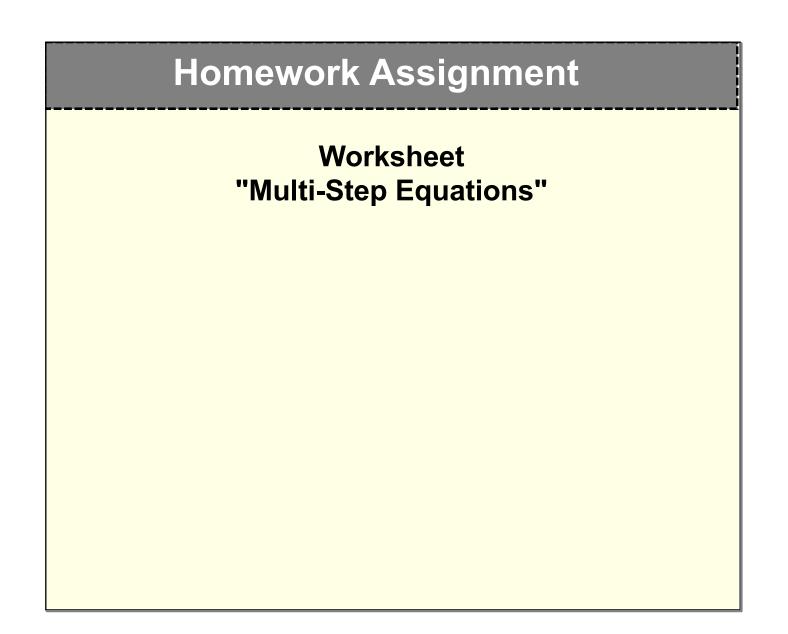
Write and solve an equation to answer the question.

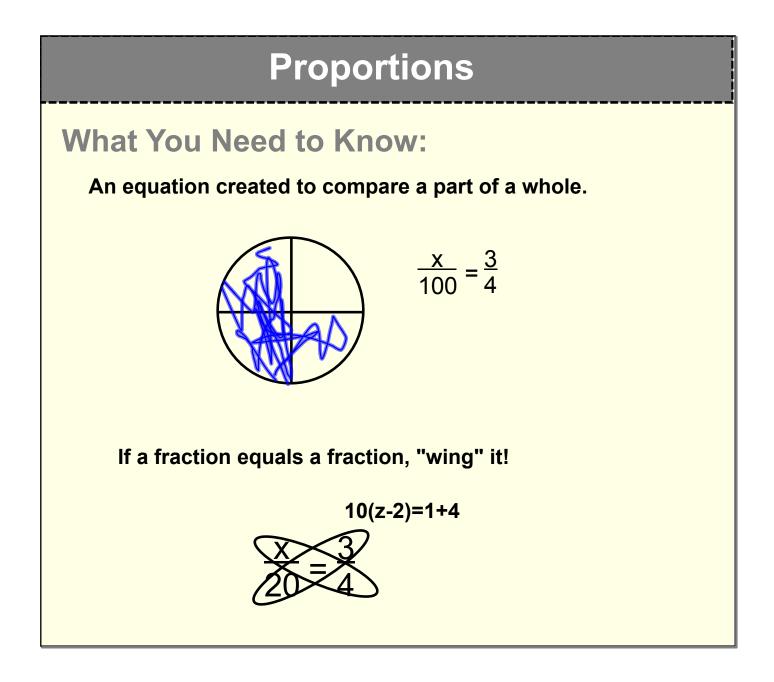
Your school band needs to buy new percussion equipment. The equipment will cost \$2450. You have \$812 from previous fundraisers. If you sell sandwiches at \$3.50 each, how many sandwiches will you need to sell to raise the remaining funds?

(\$ per sw)(# of sw sold)+(\$ already raised)=\$ of equipment

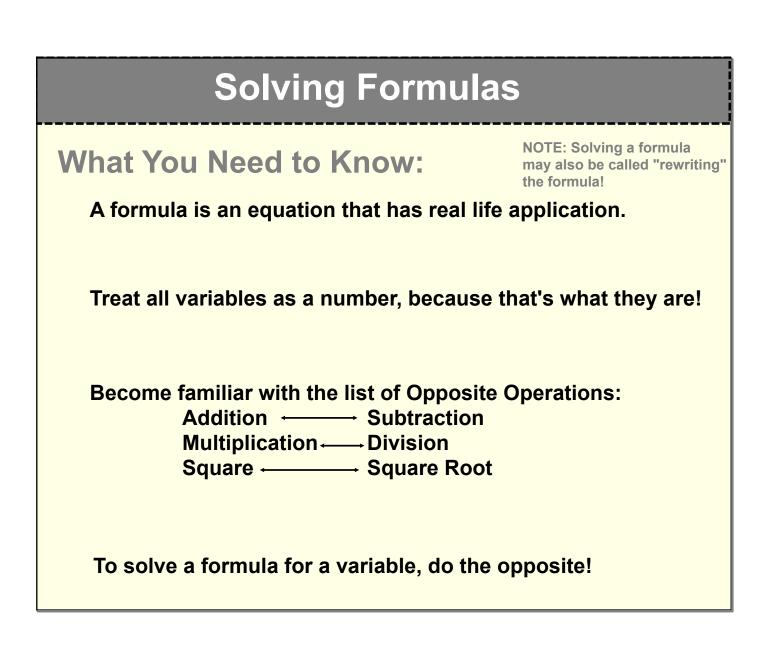
$$35X \pm 812 = 2450$$

- 812 812
 $3.5X = 1638$
 $3.5 = 35$
 $X = 468$ Sandwiches





Proportions	
Solve the proportion.	
$\frac{x}{16} = \frac{2}{8}$	"Wing" It!
$\frac{25}{x} = \frac{15}{6}$	
$\frac{32}{8} = \frac{3}{x}$	
$\frac{5}{9} = \frac{5}{3w}$	
$\frac{x}{2} = \frac{x-4}{5}$	
$\frac{4}{x-3} = \frac{-5}{x}$	



Lesson 1.2

