Math 9 Lesson 3-8: Algebra with Distributive Property

We will still use the same steps to solve for our variable but now there will be brackets.

1. Simplify both sides of the equation
2. Add or subtract to get all the variables on one side of the equation
3. Add or subtract to get all the constants on the other side
4. Multiply or divide to get the variable by itself
5. Check

Eg Solve each equation

$2(x-4)=10$

$-15=5(x-6)$

$2(4-3m)=13$

$2(y+1)=3(y-1)$

$3(3+2c)=2(5-4c)$

$8(x+2)=x+2(x+3)$

$5(h+3)-8=3(2h+1)$

Eg A cellphone company has two different plans

* Plan A: 120 free minutes and then $0.75 per additional min
* Plan A: 30 free minutes and then $0.25 per additional min

Which time for calls will result in the same cost for both costs

a) model the problem with an equation

b) solve the problem

c) verify the solution

Homework worksheet