Topic: System of Equations

Alexia G.
2/9/18
6th hr
CN

EQ: How can you solve an equation where there are more than one variable?

Questions:	Notes:
How do you solve this? $(2x+2y=100)$	1) $2x+2y=100$ 2) $5x-3y=10$ > I can now solve for x and y
How do you solve system by equations step by step?	Systems of Equations steps to solve 1) pick one of the equations (does not matter) pick #1 $2x+2y=100$ 2) Solve for one variable in the equation (ex: x or y) does not matter Ex: Solve for y (get y by itself) $2x+2y=100$ $-2x \quad -2x$ $2y=100-2x$ $y=50-x$ ← solution
Do you have to do a certain variable first?	3) Take your solution and substitute then answer into the other equation $5x-3y=10$ $5x-3(50-x)=10$ $5x-180+3x=10$ $8x-180=10$ $+180 \quad +180$ $\frac{8x}{8}=\frac{160}{8}$ $x=20$