

LESSON DIGITS 6-3

Solving Systems by Graphing

1/11/2019

Goal: I will be able to solve a system by graphing.

Tool Bag
Formulas, equations
Vocabulary, etc

Here's How... Notes & Examples

Example 8th grade class wants to make money

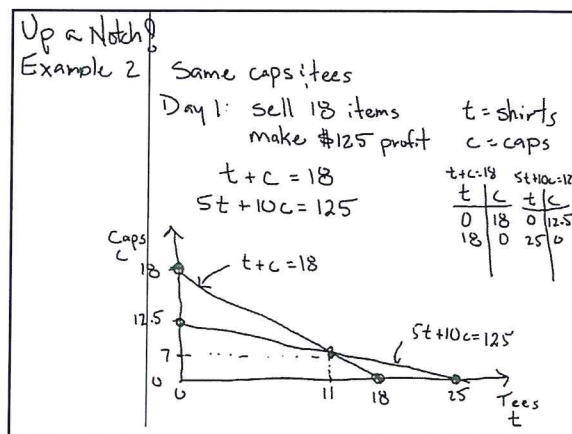
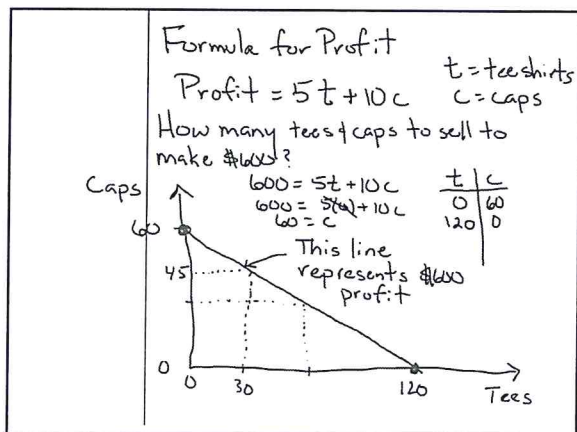
	Profit
Caps	\$10
T-shirts	\$5

Want to make \$600

How much money do they make if they sell

a) 15 Tees + 10 caps
 $\text{Profit} = 15(5) + 10(10)$
 $= 75 + 100$
 $= 175$

b) 30 Tees + 50 caps
 $\text{Profit} = 30(5) + 50(10)$
 $= 150 + 500$
 $= 650$



Solve by Graphing

Graph 2 equations, where they intersect is the solution.

$t + c = 18$
 $11 + 7 = 18 \checkmark$

$10c + 5t = 125$
 $10(7) + 5(11) = 125$
 $70 + 55 = 125 \checkmark$