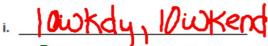
Warm Up 3/21/19

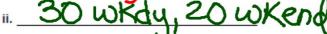
## Complete # 3 & 4 from yesterday's word problem examples sheet

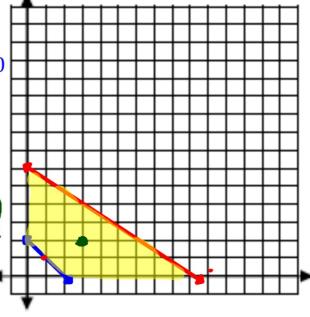
- 3. The "We Sell CDs" website plans to purchase ads in a local newspaper to advertise their site. Their operating budget will allow them to spend at most \$3000 on this advertising adventure. An ad will cost \$30 to appear in the weeklay paper and \$50 to appear in the weekend edition. They plan to run at least 20 ds. x=weekday y=weekend
- a. Write and graph a system of linear inequalities:

$$x+y \ge 20$$
  $y \ge -x + 20$   
 $30x + 50y \le 3000$   $y \le -3/5x + 60$ 

b. Write two possible solutions:







- 4. Many knits scarves and sweaters to sell. Scarres take 2 hours to knit and sweaters take 10 hours. Mary would like to spend no more than 40 hours per week knitting and knit at least 5 items per week.
  x= scarves ≤ y=sweaters
- a. Write and graph a system of linear inequalities:

$$x + y \ge 5$$
  $y \ge -x + 5$   $2x + 10y \le 40$   $y \le -1/5x + 4$ 

b. Write two possible solutions:

1 5 Scarves, 2 swt. 11 2 Scarves, 3 swt

