

Name _____

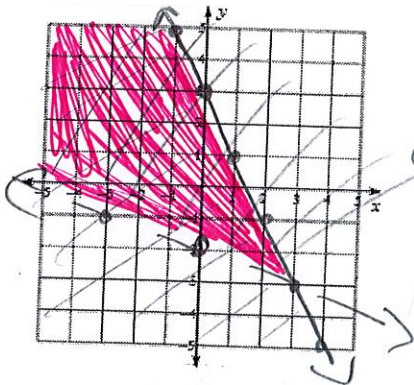
Date _____

Block 2

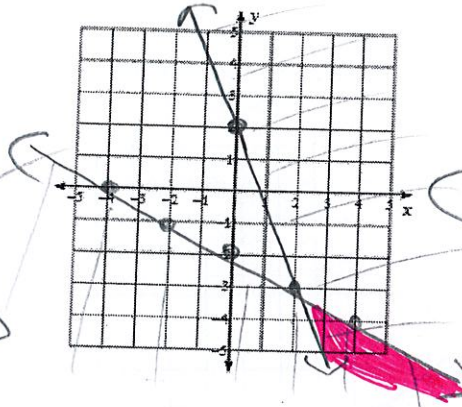
CW Day

I) Solve each system of inequalities.

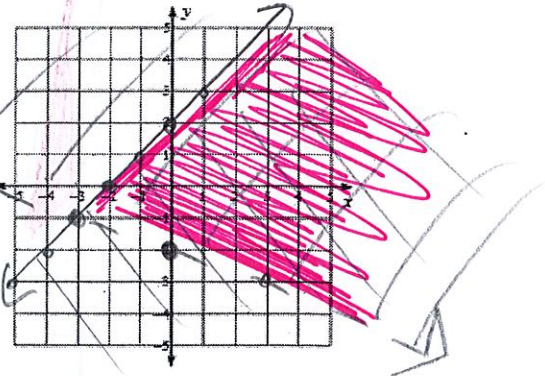
1. $y \leq -2x + 3$
 $y > -\frac{1}{3}x - 2$



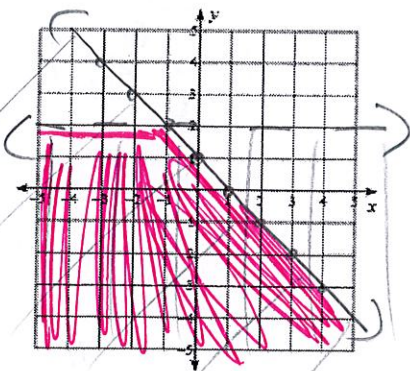
d. $y \geq -\frac{5}{2}x + 2$
 $y \leq -\frac{1}{2}x - 2$



3. $x + 3y > -6$
 $x - y \geq -2$



4. $x + y \leq 1$
 $y < 2$



5. Rondell makes \$10 an hour cutting grass and \$12 an hour for raking leaves. He cannot work more than 15 hours per week. Rondell wants to earn at least \$120 per week.

a. Write a system of inequalities that represents the total hours Rondell can work and the amount of money he wants to make in a week. Identify your variables.

$10c + 12r \geq 120$

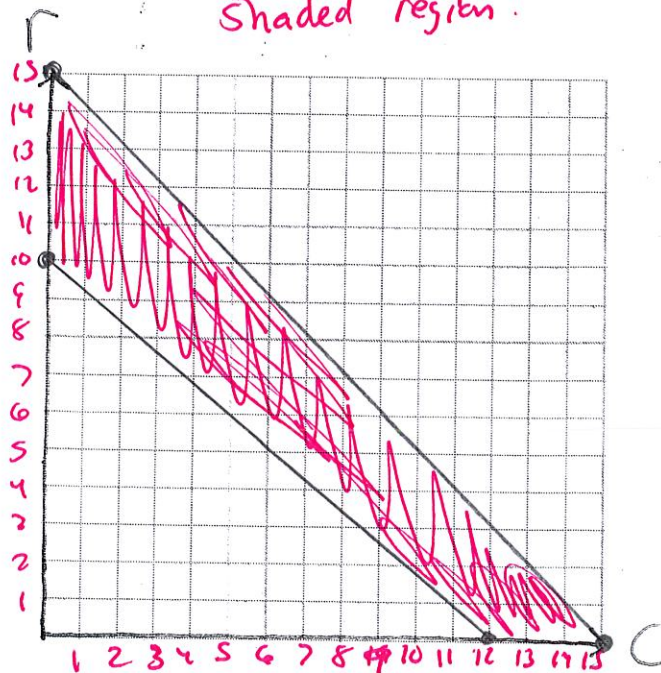
$c + r \leq 15$

c	r
0	10
12	0

c	r
0	15
15	0

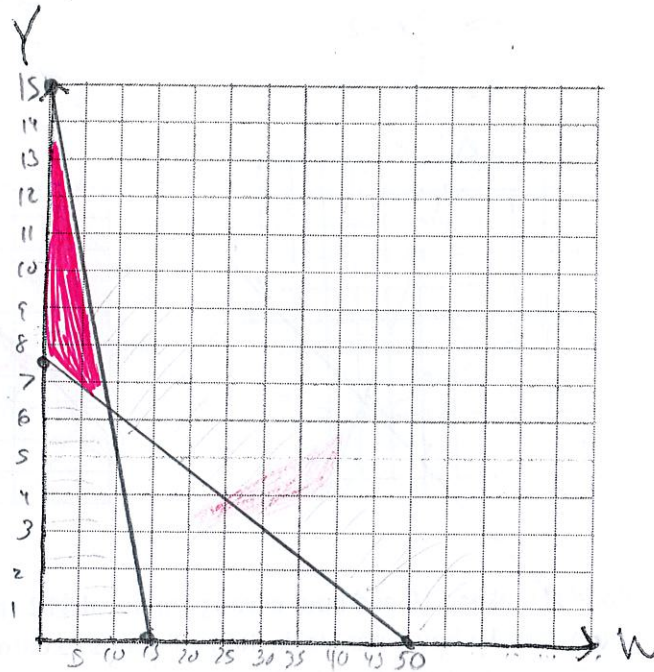
b. Graph the inequalities to find out how many hours at each job Rondell needs to work.

Any ordered pair in shaded region.



6. You have two part time jobs after school. In one job you make \$3/hour walking dogs, in your other job you make \$20/hour doing yard work. You are able to work a maximum of 15 hours per week and want to make at least \$150 per week. Show all possible hours you can work at each of your jobs and still meet your requirements of hours and dollars per week. List three possible solutions.

↳ Anything in shade



W	Y
0	15
15	0

W	Y
0	7.5
50	0

$$3W + 20Y \geq 150$$

$$W + Y \leq 15$$