Review

Mathematician Mrs. Talley

Yasmine has two jobs- Target pays $8 per hour and Jets Pizza Palace pays $6.50 per hour. Yasmine needs to earn at least $130 to go to math camp. She can only work 10 hours at Target. Because of school and her vast social life, Yasmine can work a total of no more than 22 hours each week at her two jobs.

Give five viable solutions for this situation.

Thinking Space

$8/h Target
$6.50/h @ Jets
10 hours or less at Target
no more than 22

#hours Target	#hours Jets
10	12
9	13
10	10
8	14
12	10
7	15

10(8) + 12(6.50) = 158
9(8) + 13(6.50) = 156.5
10(8) + 10(6.50) = 145
8(8) + 14(6.50) 155

12(8) + 10(6.50) = 161
7(8) + 15(6.50) = 15

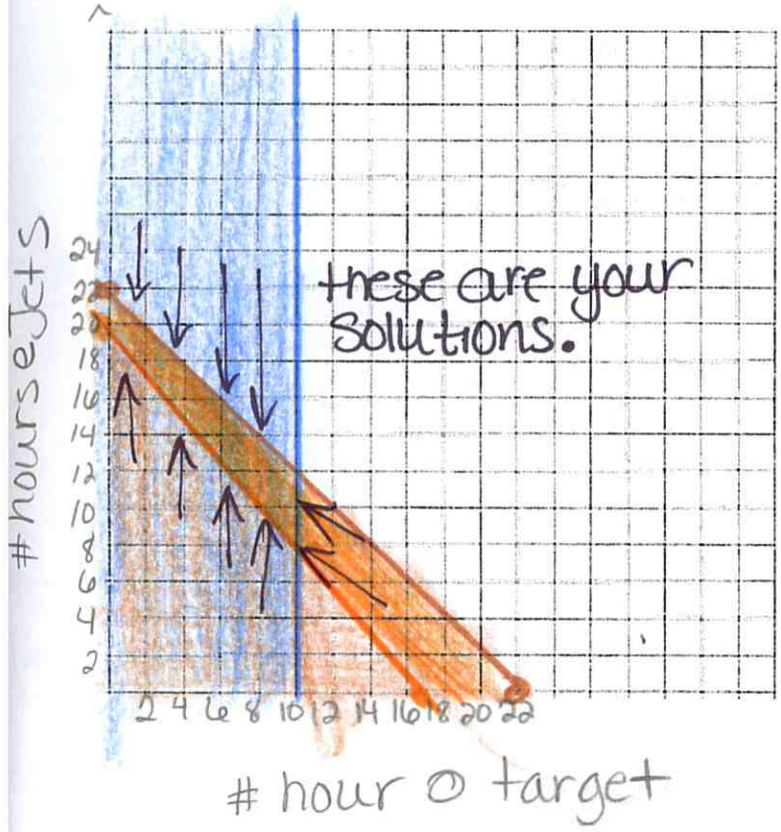
Organized Solutions

# hours @ target	# hours Jets
10	12
9	13
10	10
8	14
12	10
7	15

Equation Space

- ① $x \leq 10$
- ② $x + y \leq 22$
- ③ $8x + 6.50 \geq 130$

Graphing Space



② $x + y \leq 22$

x	y
0	22
22	0

$0 + y \leq 22$

$y \leq 22$

$x + 0 \leq 22$

$x \leq 22$

③ $8x + 6.50y \geq 130$

x	y
0	20
16.25	0

$8(0) + 6.50y \geq 130$

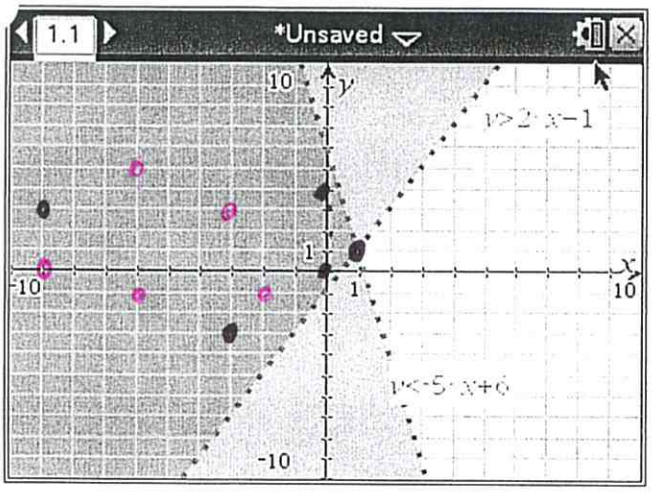
$6.50y \geq 130$

$8x + 6.50(0) \geq 130$

$x \geq 16.25$ $\quad 8x \geq 130$

2. $y < -5x + 6$

$y > 2x - 1$



A. Choose all of the ordered pairs that are solutions for the system.

(-9,3) (0,0) (-3,-3) (1, 4) (1,1)

B. Write 5 additional solutions to the system of linear inequalities (if any).

(-3,3) (-9,0) (-2,-1) (-6,5) (-6,-1)