

If you used technology for 12-15, you must include the window

12. $(-5, -4)$

13. No Sol'n (11 lines)

15. $x = \# \text{ of kids}$

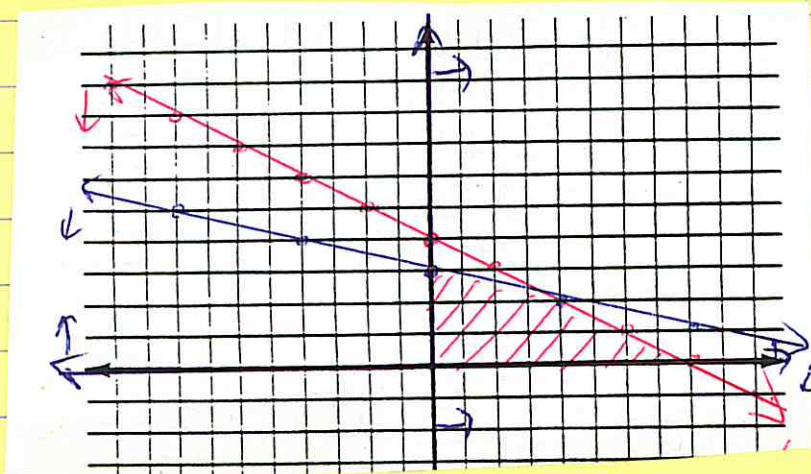
$y = \# \text{ of adults}$

$$x + y = 44$$

$$x = 3y$$

There were 11 adults and 33 children at the game

14.	$x = \# \text{ of loaves of bread}$	$y = \# \text{ of cakes}$	$x \geq 0, y \geq 0$
flour	$2x$	$4y$	$2x + 4y \leq 16$
sugar	$\frac{1}{4}x$	$1y$	$\frac{1}{4}x + y \leq 3$
Obj. Fcn Profit	$1.50x$	$4y$	$P = 1.50x + 4y$



Vertices $(0, 3)$ $(4, 2)$ $(8, 0)$

(x, y)	$P = 1.50x + 4y$
$(0, 3)$	$1.5(0) + 4(3) = 12$
$(4, 2)$	$1.5(4) + 4(2) = 14$
$(8, 0)$	$1.5(8) + 4(0) = 12$

The baker should make 4 loaves of bread and 2 cakes to maximize his profit at \$14