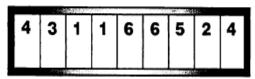


GRADE 11 ESSENTIAL UNIT F – RELATIONS AND PATTERNS GRAPHING LINES

Name:_____ Date: _____

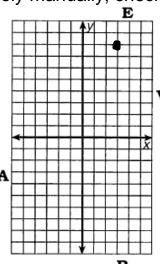
What Helps Chicks Get Out of Their Shells?

Complete the table of solutions for each equation. Then graph the solutions and draw a line through them. The line, if extended, will cross a letter outside the grid. Write this letter in each box containing the exercise number.

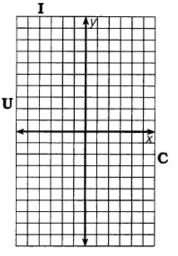


Do these accurately manually, check with a graphing tool

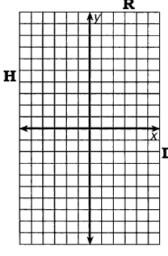
Ę		
	y = 3x - 1	
	x	у
	3	8
	2	
	-2	
	0	

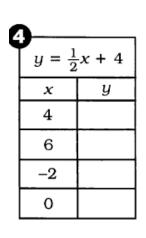


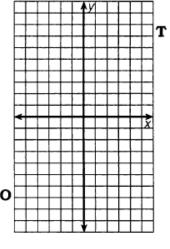
Ç	—		
•	y = -2x + 3		
	x	у	
	5		
	-3		
	2		
	0		



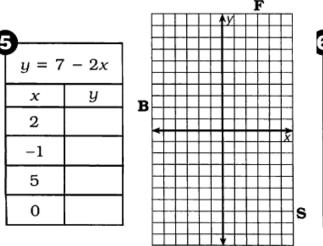
6	3				
	y = -	x - 2			
	х	y			
	6				
	-5				
	-2				
	0				



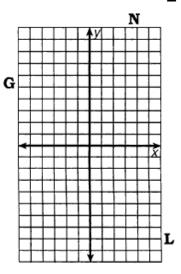




MIS



3				
$y = -\frac{1}{2}$	$\frac{2}{3}x + 1$			
х	у			
6				
-6				
3				
0				



Did you know that graphing is a great way to do problems like:

If three pizzas plus a \$3.69 bottle of Coke costs \$38.22; how much does one pizza cost?

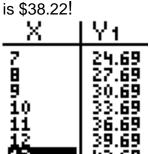
Type in an expression:

$$y = 3x + 3.69$$

[so ' \mathbf{y} ' is the possible cost of 3 pizzas and the coke if \mathbf{x} is some variable value for the price of one pizza]

A table will calculate lots of possibilities.→

So look in a table and see when the total





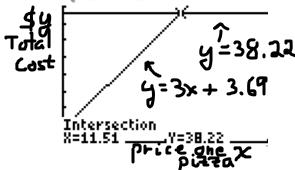
So **x** is somewhere between 11 and 12.

So graph it!

Make sure the **window** you display goes from 0 to 20 for the **x** and 0 to 40 for the **y**



And graph a horizontal line at y = 38.22 (so a second line)



Where they cross is the answer!

An x of 11.51 gives a total **y** of 38.22

See if you can figure out I found where the two lines intersect!