Mastery Algebra 1 **Practice Mastery Quiz 1-9** Name: KEY

1. Is (3, 21) a solution of the equation $y = x^2 + 5x$? Show how you know.

$21 = (3)^2 + 5(3)$?

$21 = 9 + 15$

$21 \neq 24$ NO

2. Vince earns $8.50 an hour at a fast-food restaurant.

a) Fill in the chart that represents this situation.

# hours	Total $
1	8.50
3	25.50
4	34.00
6	51.00

$1 \times 8.50 = 8.50$

$\frac{25.50}{8.50} = 3$

$4 \times 8.50 = 34.00$

$\frac{51.00}{8.50} = 6$

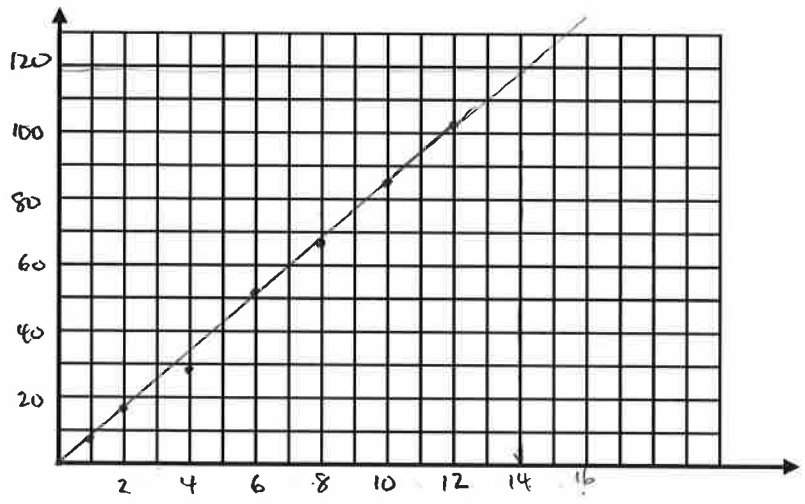
b) Write an equation to represent this situation.

Let x = # hours of working

Let y = total $ made during that time

$y = 8.50x$

c) Make a graph of this situation on the grid below. Be sure to label clearly!



d) How many hours did Vince work if he was paid $119?

Vince worked for 14 hours.

$\frac{119}{8.5} = 14$