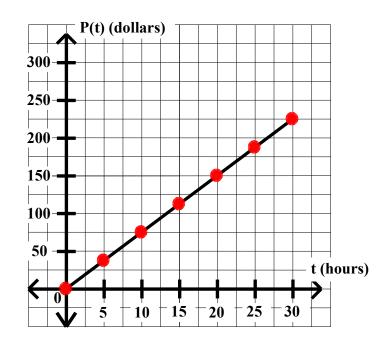
Algebra I Worksheet #8 Unit 8 Selected Solutions

Mary has a part-time job. She can work up to 30 hours a week. She gets paid \$7.50 per hour. Let t represent the number of hours she works. Let P(t) represent her total pay.

- 1. Make a table giving t and P(t) every 5 hours from t = 0 to t = 30.
- 2. Graph function P.

t hours	P(t) dollars
0	0
5	37.5
10	75
15	112.5
20	150
25	187.5
30	225



- 10. Write an equation giving P(t) in terms of t. She is paid \$7.50 per hour for t hours.
- P(t) = 7.5t

11. Write an inequality to describe the domain of function P.

$$0 \le t \le 30$$

13. Evaluate P(12). What does P(12) represent in terms of the problem?

P
$$(12) = (\$7.50)(12) = 90$$
 dollars
P(12) represents the amount of money
Mary earns for working 12 hours.

12. Write an inequality to describe the range of function P.

$$0 \le P(t) \le 225$$

14. If P(t) = 30, then find the value of t.

Describe what this value of t represents in terms of the problem.

$$7.5t = 30$$

t = 4 hours

This represents the time Mary works to earn 30 dollars.