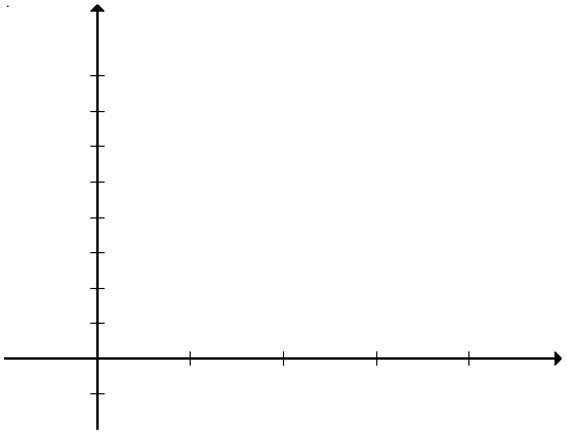
TRS 92: Function Notation and Multiple Representations

For **#1-7**: A plumber charges $40 for a house call, and $25 for each hour she works to repair the problem.

1. What do you think would be the independent variable in this case? Identify this variable with a letter and a unit of measurement.

2. What do you think would be the dependent variable in this case? Identify this variable with a letter and a unit of measurement.

3. Create a graph and table of values with 5 different inputs. Label both the graph and the table appropriately.



4. Write an equation to represent this situation *using function notation*.

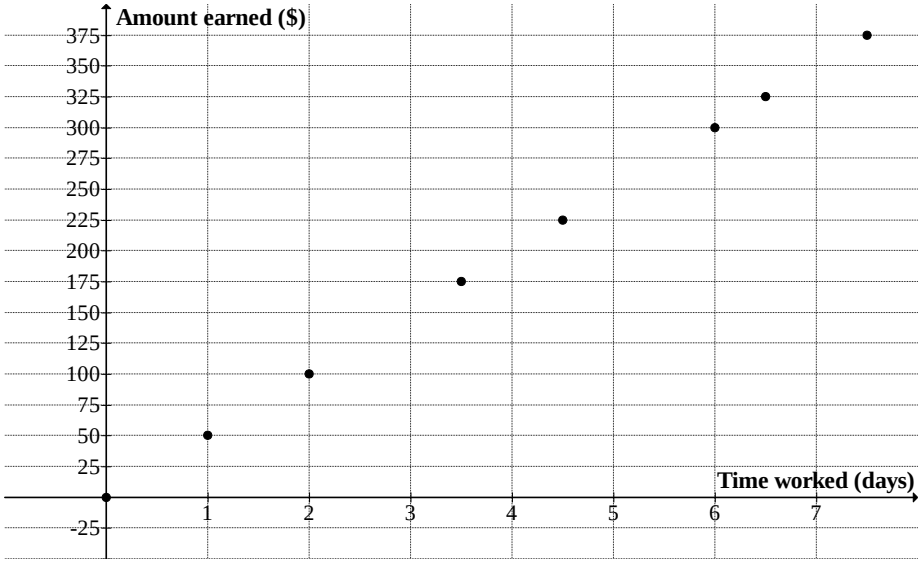
5. Is this relation a function? Why or why not?

6. Use your equation to find the charge for 12 hours.

7. Fill in the blanks in the following statement for this relation:

_____ is a function of _____.

8. Using the information from the graph to the right, identify the variables.



Independent:

Dependent:

9. Using the graph, fill in the table.

Time worked in days	0		4.5		7.5
Amount earned in $		100		325	

10. Write a verbal description that fits the data in the graph.

11. Write an equation for the situation *using function notation* (and the variables you defined).

12. Fill in the blanks in the following statement for this relation:

_____ is a function of _____.

Complete the MML Assignment: Function Notation.