51. Matt is saving money. He makes $8 per hour at his job and has already saved $42.

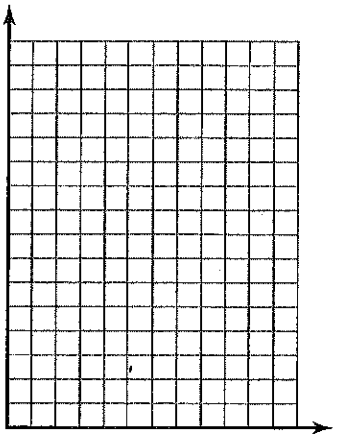
A. Write an equation relating the number of hours (x) Matt works at his job to the total amount saved (y), if he saves all of his earnings.

_____

B. Use your equation to fill in the missing values in the table.

Hours Worked (x)	Total Dollars Saved (y)
6	90
12	
18	
24	

C. Graph the table of values on the coordinate plane. Label each axis and provide a title.



D. Does the graph that you made represent a function? Explain why or why not.

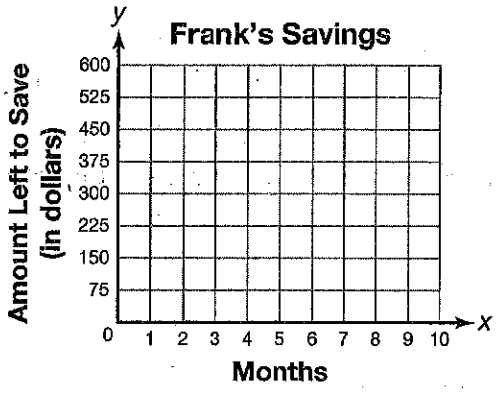
_____

_____

52. Frank needs to save $600 to buy a set of golf clubs. He plans to save $75 per month.

A. Write an equation that Frank can solve to determine the amount of money he still has to save (y) in relation to the number of months (x) in which he has saved money.

B. Graph the equation on the coordinate plane.



C. What is the slope of the line that you graphed in **Part B**?

D. Explain what the slope from **Part C** means.

Read the problem. Write your answer for each part.

2. Padma rented a bike for x hours and a kayak for y hours while she was on vacation.

   A She rented the bike and kayak for a total of 7 hours. Write an equation to represent this situation.

Answer: _____

The bike cost $6 an hour and the kayak cost $10 an hour. Padma spent a total of $60 for the bike and kayak rentals.

B Write an equation to represent this situation.

Answer: _____

C How many hours did Padma rent the kayak? Show or explain your work.

Answer: _____

Read the problem. Write your answer for each part.

3. The table shows how the length of Alex's pet lizard is changing over time.

PET LIZARD GROWTH

Age (years)	Length (centimeters)
1	5.0
2	7.4
3	9.8
4	12.2
5	14.6

A Write an equation using x and y to find the length of the lizard based on its age.

Answer: _____

B Describe what the x and y variables represent in your equation.

C Use your equation to predict the length of the lizard when it is 12 years old. Show your work.

Answer: _____