Janice plans to enroll in a Spanish class at a language school. She has to pay a registration fee of \$100 plus \$20 for each hour-long lesson she takes. The relation between the total amount she pays and the number of hours of lessons she takes is a function.

Equation	Table			
Ordered Pairs	Graph			
	+++++++++			



Complete.

- A game shop rents out video games at a rate of \$6 per game. The total amount of money the shop collects, y dollars, is a function of the number of games, x, that the shop rents out.
- a) Write a verbal description of the function. Then write an algebraic equation for the function.

Total amount of money the shop collects equals product of the rental rate and the _?___.

<u>?</u> = 6 · <u>?</u>	Write an equation.
????????	Simplify.

b) Construct a table of x- and y-values for the function.

x	1	2	3
у	6	?	?

In this situation, only whole numbers make sense for the input and output of the function.



c) Use the table of values in b) to graph the function. Use 1 unit on the horizontal axis to represent 1 game for the x interval, and 1 unit on the vertical axis to represent \$6 for the y interval.

2 A fire sprinkler sprays water at a rate of 8 gallons per minute. The total amount of water being sprayed, y gallons, is a function of the number of minutes, x, that the sprinkler sprays water.