Complete numbers 5 - 6 in your composition book.

6) You go to an arcade where each game costs 6 quarters.

a. Write an equation using 2 variables to find the c cost of playing g games.

$c = 6g$

b. Identify the independent and dependent varia

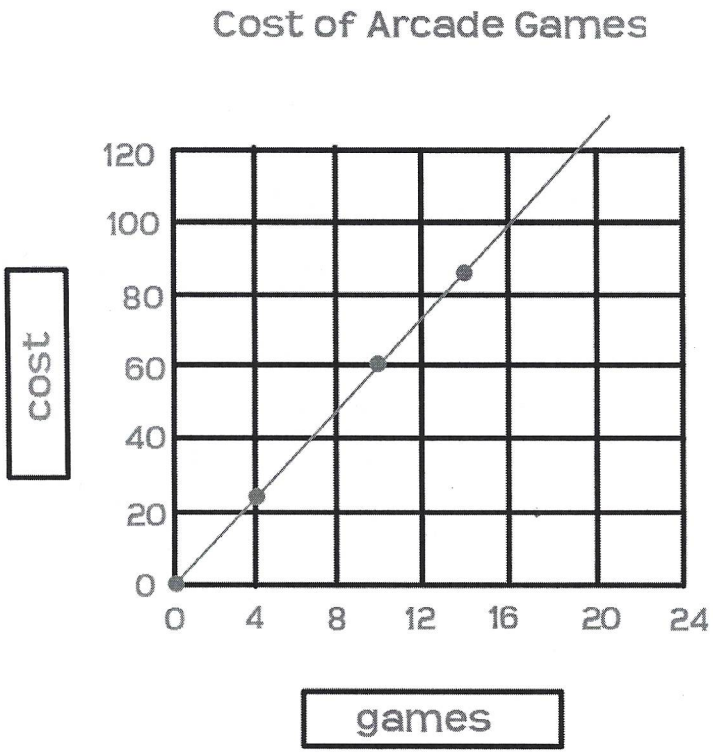
dependent variable: c, the cost
independent variable: g, the number of games playe

c. What is the cost of playing 14 games?

$c = 6g$
$c = 6(14)$
$c = 84$

The cost for 6 games is $84.

d. Graph the equation.


Cost of Arcade Games
120
100
80
60
40
20
0
cost
0
4
8
12
16
20
24
games

Complete numbers 5 and 6 on your notes page.

5) A cheese pizza costs $5. Additional toppings cost $1.50 each.

a. Write and graph an equation using 2 variables to find the total cost of a pizza with toppings.

$$c = 5 + 1.50t$$

b. Identify the independent and dependent variables.

independent variable: the number of toppings

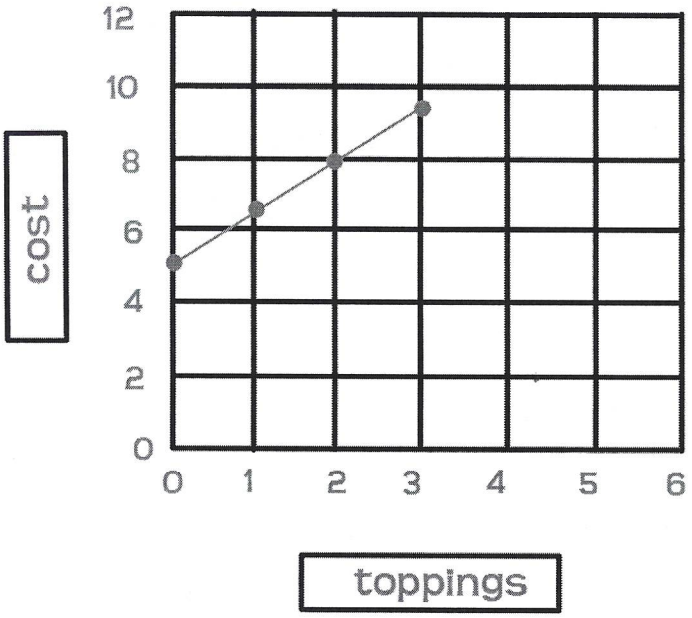
dependent variable: the total cost of the pizza

c. What is the cost of a pizza with 3 toppings?

$c = 5 + 1.50t$
$c = 5 + 1.50(3)$
$c = 5 + 4.50$
$c = 9.50$

A pizza with 3 toppings will cost $9.50.

Cost of Pizza with Toppings



Complete numbers 5 and 6 on your notes page.

6) It costs $35 to join a gym. The monthly fee is $25.

a. Write and graph an equation using 2 variables to find the cost of being a member of the gym.

$c = 35 + 25m$

b. Identify the independent and dependent variables.

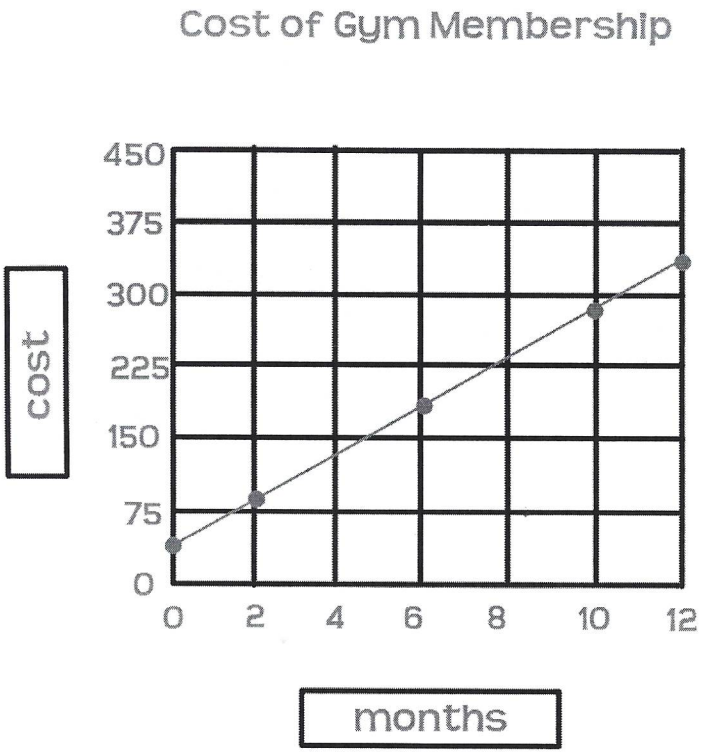
independent variable: m, the number of months

dependent variable: c, the cost of the membership

c. What is the cost of a gym membership for a year?

$c = 35 + 25m$
$c = 35 + 25(12)$
$c = 35 + 300$
$c = 335$

It costs $335 to be a member of the gym for a year.


Cost of Gym Membership
450
375
300
225
150
75
0
cost
0
2
4
6
8
10
12
months