## **Understanding the y-Intercept - Guided Lesson Explanation**

## Explanation#1

y is 2 times x.

Write this relationship as an equation.

y is 2 times x

y = 2x

Now plug x = 6 into this equation and solve for y.

y = 2x

y = 2(6) Plug in x = 6

y = 12

If Pete purchases 6 ice pops, the total cost is \$18.

## Explanation#2

Proportional quantities have a constant ratio. This constant ratio is called the constant of variation. The constant of variation often represents a rate or a cost.

To find the constant of variation, divide "amount earned" by "Time spent (hours)".

Now we make a table

No. of hours work	Calculation of total	Total money he earned
	amount he earned	per hour
5	25	\$5
6	30	\$5

The constant of variation is 5. Answer is: \$5

N.	Б.
Name	Date

## Explanation#3

r represents the total collection. r is equal to the \$20 for maintenance which is constant and rent for month is \$250. The number of months will vary and is represented by m.

An expression for total collection:

$$r = 250m + 20$$

So the answer is r = 250m + 20.