

(m)

b

1. You and your friends plan to attend the county fair this weekend. The admission to the fair is \$5 and the cost per ride is 50¢. If your parents gave you \$20, write and solve a linear equation to find how many rides you can go on.

$$y = mx + b$$

$$y = .50x + 5$$

$$y = \$1$$

x = rides

$$\begin{array}{r} 20 = .50x + 5 \\ -5 \\ \hline 15 = .50x \end{array}$$

$$\begin{array}{r} 15 = .50x \\ \underline{.50} \\ .50 \end{array}$$

$$x = 30$$

5. Sam ordered 2 tacos and 3 enchiladas for lunch at the restaurant. His bill came to \$7.80. If enchiladas were \$2 each, write and solve a linear equation to find the cost of each taco.

$$A = 2$$

$$2x + 3y = 7.80$$

$$B = 3$$

$$2x + 3(2) = 7.80$$

$$x = \text{tacos}$$

$$2x + 6 = 7.80$$

$$y = \text{enchiladas}$$

$$\begin{array}{r} -6 \\ -6 \end{array}$$

$$C = 7.80$$

$$2x = 1.80$$

(x,y)m

9. At Eagle Bay, it costs \$10 per hour to rent a canoe. Nick and his friends rented a canoe for 3 hours and paid \$45. Write and solve a linear equation to find the cost to rent the canoe for 8 hours.

$$y - y_1 = m(x - x_1)$$

$$x_1 = \text{hours } 3$$

$$y - 45 = 10(x - 3)$$

$$y_1 = \$ 45$$

$$y - 45 = 10x - 30$$

$$m = 10$$

$$+45 \quad +45$$

$$y = 10x + 15$$

$$y = 10(8) + 15$$