

LINEAR EQUATIONS WORD PROBLEMS

Type

1

SLOPE-INTERCEPT

Notes:

Use when given a rate of change (m) and a starting point (b).

1. Evan is going to the county fair this weekend. The admission to the fair is \$5 and the cost per ride is 50¢. If his parents gave him \$20, write and solve a linear equation to find how many rides he can go on.

$$m = 0.50$$

$$b = 5.00$$

$$y = .50x + 5.00$$

$$20 = .50x + 5$$

$$\frac{15}{.5} = \frac{.50x}{.5}$$

$$x = 30 \text{ rides}$$

2. While visiting Crimson Lake, Sally decided to go kayaking. The rangers charge \$8.50 per hour in addition to a \$25.00 deposit to rent the kayak. If she rented the kayak from 11:30 a.m. to 2:30 p.m., write and solve a linear equation to find the total cost to rent the kayak.

$$m = 8.50$$

$$b = 25.00$$

$$y = 8.50x + 25.00$$

$$y = 8.50(3) + 25$$

$$y = \$50.50$$

3. Alex bought a new truck for \$42,935. According to the dealer, the truck will depreciate approximately \$4,200 per year. Write and solve a linear equation to find how many years until the car is worth \$5,135.

$$m = -4200$$

$$b = 42935$$

$$y = -4200x + 42935$$

$$5135 = -4200x + 42935$$

$$-37800 = -4200x$$

$$x = 9 \text{ years}$$

4. If you buy a car wash at the gas station for \$6.00, the cost per gallon is \$2.35. If you have \$40, write and solve a linear equation to find the number of gallons of gas you can afford.

$$m = 2.35$$

$$b = 6$$

$$y = 2.35x + 6.00$$

$$40 = 2.35x + 6$$

$$34 = 2.35x$$

$$x = 14.47 \text{ gal}$$

Type

2

STANDARD FORM

Notes:

Use when the problem relates 2 different objects.

5. Sam ordered two hamburgers and three hotdogs from the concession stand at the baseball game. His bill came to \$19.05. If hamburgers cost \$5.25 each, write and solve a linear equation to find the cost of each hot dog.

$$x = \text{hamburgers}$$

$$y = \text{hotdogs}$$

$$2x + 3y = 19.05$$

$$2(5.25) + 3y = 19.05$$

$$10.50 + 3y = 19.05$$

$$3y = 8.55$$

$$y = \$2.85$$

Linear Word Problems Algebra Homework

Wenbin Ji



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