

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

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Linear Word Problems Algebra Homework:

Linear Word Problems Algebra Homework Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Linear Word Problems Algebra Homework**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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