

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. $m = 0.50$ $b = 5.00$	$y = .50x + 5.00$	$20 = .50x + 5$ $15 = .50x$ $\frac{15}{.5} = \frac{.50x}{.5}$ $x = 30 \text{ rides}$
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. $x = \text{hamburgers}$ $y = \text{hotdogs}$	$2x + 3y = 19.05$	$2(5.25) + 3y = 19.05$ $10.50 + 3y = 19.05$ $3y = 8.55$ $y = \$2.85$

Answer Key To Word Equations

Annelies Wilder-Smith

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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