LINEAR EQUATIONS WORD PROBLEMS

-	
	YPe
37	
В.	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 50g. If his parents gave him \$20, write and solve a linear equation to find how many rides he can go on. $| V = .50 \times +5.00$ $| 20 = .50 \times +5.$

M= 0.50

y = .50x +5.00

15=.50 x .5 .5 X=30 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 = \$.50(3)+25 Y= \$50.50

 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 = -4200+ 42935

5135 = -4200x+ 42935 -37800 = -4200 x

x=9 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

Y= 2.35x +6.00

40=2.35×+6 34=2.35× X=14-17gal



STANDARD FORM

Notes:

Use when the problem relates 2 different objects.

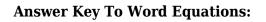
5. Sam ordered two hamburgers and three hotdogs from the concession stand at the baseball game. His bill came to \$19.05. If hamburgers cost \$5.25 each, write and solve a linear equation to find the cost of each hot dog.

X=hamburgers Y=hotdogs 2x + 3y = 19.05

2(5.25)+3y = 19.05 10.50 +3y = 19.05 3y = 8.55

Answer Key To Word Equations

Guillaume Favre



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