



NAME : _____

CLASS : _____

DATE : _____

Linear Word Problems

25 Questions

- Joe's Canoes charges an initial fee of \$20 plus \$4 an hour. Callie's Canoes charges a flat rate of \$14 an hour. Find the number of hours for which the total amount that both places charge would be the same.
 a) 3 hours b) 4 hours
 c) 1 hour d) 2 hours
- Which situation below is representative of y-intercept?
 a) putting \$300 a month into savings b) buying \$30 worth of supplies for a lemonade stand
 c) Spending \$3 per ride at the fair d) Paying \$2 for parking every day
- Bob has \$150 in his savings account and saves \$40 per month. Which equation represents the amount Bob has in his account after x months?
 a) $y = 150 + 40$ b) $y = 40x + 150$
 c) $y = 150x + 40$
- A holiday meal costs \$12.50 a person plus a delivery fee of \$30. Which equation represents the amount a holiday meal costs, including delivery, for x people?
 a) $y = 30 + 12.5x$ b) $y = 12.5 + 30$
 c) $y = 12.5 + 30x$
- Easy Car Rental charges \$8.50 an hour plus a rental fee of \$25.50. Which equation represents the total charges for x hours?
 a) $y = 8.5 + 25.5$ b) $y = 25.5 + 8.5x$
 c) $y = 8.5 + 25.5x$

6. Jerry has \$20 and makes \$7 per hour. Which equation represents the total amount of money Jerry has after working x hours?

a) $y = 7x + 20$

b) $y = 7 + 20x$

c) $y = 20 + 7$

7. Sonya has \$40 in her lunch account and pays \$2 each day to eat lunch. Which equation can be used to find the amount of money Sonya has left on her account after x days?

a) $y = 40 + 2x$

b) $y = 40 - 2x$

c) $y = 2 + 40x$

d) $y = 2 - 40x$

8. Sandra has a \$20 itunes gift card and spends \$3 each month. Which equation can be used to find how much money Sandra has on her giftcard after x months?

a) $y = 3x + 20$

b) $y = 3 + 20x$

c) $y = -3x + 20$

d) $y = -20x + 3$

9. Amber's savings account had a balance of \$350 rolled over from the previous year. She set it up for \$50 to be drafted out of her checking account and into her savings account every month. What information in this problem represents the y -intercept?

a) 350

b) 50

c) -50

d) -350

10. For lunch, Amanda had a hamburger and some potato chips. The hamburger totaled 325 calories and each chip had 12 calories. Write a linear equation to represent the situation.

a) $y = 12 + 325$

b) $y = 12x + 325$

c) $y = 325 - 12x$

d) $y = 325x + 12$

11. Which equation shows the number of bottles left after x days? A family buys a case of water with 48 bottles and drinks 5 bottles per day.

a) $y = 48x + 5$

b) $y = -5 + 48x$

c) $y = -5x - 48$

d) $y = 48 - 5x$

18. If I join the gym for a start up fee of \$40 and monthly fee of \$10, what is a possible label for the x axis?
- a) Total Amount Paid b) Total Number of People at the Gym
- c) Hours d) Months
19. If I join the gym for a start up fee of \$40 and monthly fee of \$10, how much money have I spent if I have gone to the gym for 6 months?
- a) \$60 b) \$100
- c) \$50 d) \$110
20. The total cost (y) at an amusement park can be modeled by $y=1.5x+20$ where x is the number of rides you ride. What is the entrance fee?
- a) 1.5 b) 200
- c) 0 d) 20
21. The total cost (y) at an amusement park can be modeled by $y=1.5x+20$ where x is the number of rides you ride. What is the price to ride one ride?
- a) 1.5 b) 21.5
- c) 0 d) 20
22. A man is climbing down from 100 feet high **descending** 30 feet per minute.
- a) $y = 100 - 30x$ b) $y = 100 + 30x$
- c) $y = 100x + 30$ d) $y = 100x - 30$
23. Jenny went to the sale at Kohl's last weekend. T-shirts were on sale for \$15 each and hoodies were on sale for \$20 each. If she spent \$150 total, write an equation to represent this situation.
- a) $20x + 15 = y$ b) $35x = y$
- c) $15x + 20y = 150$ d) $150 - 20x = 15y$

24. Would you write a linear equation to model the following situation in slope-intercept form or standard form?

Mrs. Harris is going to the movies. She spends \$10 per ticket and \$5 per bucket of popcorn. She only wants to spend \$50.

a) Slope-intercept

b) Standard form

25. Sam ordered 4 tacos and 5 enchiladas for lunch at the restaurant. His bill came to \$10.80. Which equation matches the given situation?

a) $4x + 3y = 8.10$

b) $4x + 5y = 10.80$

c) $4x - 5y = 10.80$

d) $4x + 10.80y = 5$