

Linear Word Problems

25 Questions

NAME :	
CLASS:	
DATE :	

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.

3		
a) 3 hours	b)	4 hours
c) 1 hour	d)	2 hours

- 2. 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
- 3. 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?
- \Box a) y = 150 + 40 \Box b) y = 40x + 150
- 4. 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
- 5. Easy Car Rental charges \$8.50 an hour plus a rental fee of \$25.50. Which equation represents the total charges for x
- \Box a) y = 8.5 + 25.5 \Box b) y = 25.5 + 8.5x
- \Box c) y = 8.5 + 25.5x

hours?

 \Box c) y = 12.5 + 30x

 \Box c) y = 150x + 40

	Jerry has \$20 and makes \$7 per hour. Which equation represents the total amount of money Jerry has after working x				
hours?	out of money corry has also working x				
☐ c) y = 20 + 7					
eat lunch. Which equa	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?				
\Box a) y = 40 + 2x	\Box b) y = 40 - 2x				
\Box c) y = 2 + 40x	\Box 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) $y = 3x + 20$	\Box b) y = 3 + 20x				
\Box c) y = -3x + 20	\Box 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				
 For lunch, Amanda had a hamburger and some potato chips. The hamburger totaled 325 calories and each chip had 12 calories. Write a liner equation to represent the situation. 					
☐ a) y = 12 + 325	\Box b) $y = 12x + 325$				
☐ c) y = 325 - 12x	\Box 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.					
\Box a) y = 48x + 5	\Box b) $y = -5 + 48x$				
☐ c) y = -5x - 48	\Box d) y = 48 - 5x				

12.	The drama club sold tickets to a play for \$5 each. They also made \$55 in soda and popcorn sales. If the drama club made a total of \$290, how many tickets were sold?		
	a) 47	□ b) 58	
	c) 69	☐ d) 113	
13.	Andrea earns a flat fee of \$20 per of dollars for each sale she makes. A Saturday and earned a total of \$80 earn for each sale she makes?	andrea made 10 sales last	
	a) \$6	□ b) \$8	
	c) \$10	☐ d) \$12	
14.	The start up cost to join eTunes muscles song downloaded. If Will spent \$2 equation to find how many songs h	6, write and solve a linear	
	a) 32 songs	☐ b) 33 songs	
	c) 19 songs	☐ d) 36 songs	
15.	At a pet store, it costs \$5 to wash a dog. Last week, the store made \$6 dogs. If 6 cats were washed, write to find how many dogs were washed	60 from washing cats and and solve a linear equation	
	a) 2 dogs	☐ b) 3 dogs	
	c) 4 dogs	☐ d) not enough information	
16.	The cost for new carpet is \$8.55 per installation fee. 700 square yards much is the installation fee?		
	a) \$8.55	□ b) \$6155.45	
	c) \$179	☐ d) \$5985	
17.	You and your friends plan to attend weekend. Admission to the fair is \$0.50. How many rides can you go	55 and the cost per ride is	
	a) 20 rides	☐ b) 30 rides	
	c) 40 rides	☐ d) 50 rides	

18.	If I join the gym for a start up fee of \$40 and \$10, what is a possible label for the x axis?	monthly	fee of
□ a	a) Total Amount Paid	□ b)	Total Number of People at the Gym
	e) Hours	□ d)	Months
19.	If I join the gym for a start up fee of \$40 and \$10, how much money have I spent if I have for 6 months?	-	
□ a	a) \$60	□ b)	\$100
	s) \$50	□ d)	\$110
20.	The total cost (y) at an amusement park can y=1.5x+20 where x is the number of rides you entrance fee?		•
□ a	a) 1.5	□ b)	200
	c) 0	□ d)	20
21.	The total cost (y) at an amusement park can y=1.5x+20 where x is the number of rides you price to ride one ride?		•
□ a	a) 1.5	□ b)	21.5
	e) 0	□ d)	20
22.	A man is climbing down from 100 feet high oper minute.	descendii	ng 30 feet
□ a	a) $y = 100 - 30x$	□ b)	y = 100 + 30x
	y = 100x + 30	□ d)	y = 100x - 30
23.	Jenny went to the sale at Kohl's last weeken. T-shirts were on sale for \$15 each and hood for \$20 each. If she spent \$150 total, write a represent this situation.	lies were	
□ a	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	s to sp	end \$50.	
□ a	a) Slope-intercept) Standard form	
25.	Sam ordered 4 tacos and 5 enchiladas for lunrestaurant. His bill came to \$10.80. Which equate the given situation?		-	
□ a	a) $4x + 3y = 8.10$	□ b	4x + 5y = 10.80	
	c) $4x - 5y = 10.80$	□ c	4x + 10.80y = 5	