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## Linear Word Problems

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25 Questions

1. 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.
$\square$ a) 3 hoursb) 4 hoursc) 1 hourd) 2 hours
2. Which situation below is representative of $y$-intercept?
a) putting $\$ 300$ a month into savingsb) buying $\$ 30$ worth of supplies for a lemonade stand
c) Spending $\$ 3$ per ride at the faird) 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?
a) $y=150+40$
b) $y=40 x+150$
c) $y=150 x+40$
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) $y=30+12.5 x$b) $y=12.5+30$c) $y=12.5+30 x$
5. 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) $y=25.5+8.5 x$
c) $y=8.5+25.5 x$
6. Jerry has $\$ 20$ and makes $\$ 7$ per hour. Which equation represents the total amount of money Jerry has after working $x$ hours?
a) $y=7 x+20$
b) $y=7+20 x$
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) $y=40+2 x$
b) $y=40-2 x$
c) $y=2+40 x$
d) $y=2-40 x$
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) $y=3 x+20$
b) $y=3+20 x$
c) $y=-3 x+20$d) $y=-20 x+3$
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) 50c) -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 liner equation to represent the situation.
a) $y=12+325$b) $y=12 x+325$
c) $y=325-12 x$
d) $y=325 x+12$
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) $y=48 x+5$
b) $y=-5+48 x$
$\square$ c) $y=-5 x-48$d) $y=48-5 x$
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) 58c) 69
d) 113
13. Andrea earns a flat fee of $\$ 20$ per day plus an additional $x$ dollars for each sale she makes. Andrea made 10 sales last Saturday and earned a total of $\$ 80$. How much does Andrea earn for each sale she makes?
a) $\$ 6$
b) $\$ 8$
c) $\$ 10$
d) $\$ 12$
14. The start up cost to join eTunes music is $\$ 7.95$ plus $\$ 0.95$ per song downloaded. If Will spent $\$ 26$, write and solve a linear equation to find how many songs he downloaded.
a) 32 songs
b) 33 songs
c) 19 songs
d) 36 songs

At a pet store, it costs $\$ 5$ to wash a cat and $\$ 7.50$ to wash a 15. dog. Last week, the store made $\$ 60$ from washing cats and dogs. If 6 cats were washed, write and solve a linear equation to find how many dogs were washed.
$\square$ a) 2 dogsb) 3 dogsc) 4 dogsd) not enough information
16. The cost for new carpet is $\$ 8.55$ per square yard, plus an installation fee. 700 square yards of carpet cost $\$ 6164$. How much is the installation fee?
a) $\$ 8.55$
b) $\$ 6155.45$
c) $\$ 179$
d) $\$ 5985$
17. You and your friends plan to attend the county fair this weekend. Admission to the fair is $\$ 5$ and the cost per ride is $\$ 0.50$. How many rides can you go on if you have $\$ 20$ ?
a) 20 rides
b) 30 rides
c) 40 ridesd) 50 rides
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 Paidb) 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 $y=1.5 x+20$ where $x$ is the number of rides you ride. What is the entrance fee?
a) 1.5
b) 200c) 0
d) 20
21. The total cost $(y)$ at an amusement park can be modeled by $y=1.5 x+20$ where $x$ is the number of rides you ride. What is the price to ride one ride?a) 1.5
b) 21.5c) 0d) 20
22. A man is climbing down from 100 feet high descending 30 feet per minute.a) $y=100-30 x$
b) $y=100+30 x$c) $y=100 x+30$d) $y=100 x-30$
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) $20 x+15=y$
b) $35 x=y$c) $15 x+20 y=150$d) $150-20 x=15 y$
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) $4 x+3 y=8.10$
b) $4 x+5 y=10.80$c) $4 x-5 y=10.80$
d) $4 x+10.80 y=5$

