

Name _____



Linear Equation Word Problems

1. Ella wants to start a lemonade stand to raise money for charity. She estimates her fixed costs to be \$50 for the stand and \$0.25 for each cup of lemonade. If she sells each cup for \$1, how many cups does she need to sell to break even?
2. Jackson is starting a bike rental business. He pays \$200 per month for insurance and \$10 per bike for maintenance. If he rents each bike for \$25 per day, how many bikes does he need to rent each month to make a profit of \$500?
3. The student council organizes a fundraiser selling chocolate bars. Each chocolate bar costs \$2 to make and sells for \$5. If they want to make at least \$500 in profit, how many chocolate bars do they need to sell?
4. The XYZ Fitness Club charges a \$100 sign-up fee and \$50 per month for membership. If a member pays \$400 in total, how many months of membership did they purchase?
5. GreenTech offers a solar panel installation service. They charge a fixed fee of \$1000 plus \$200 per panel. If a customer's bill is \$3400, how many panels did they install?
6. Infinity Cable offers a basic package for \$50 per month and charges \$10 per additional channel. If a customer's bill is \$120, how many additional channels did they purchase?
7. A car travels at a constant rate of 30 miles per gallon of gasoline. If the car travels 150 miles, how many gallons of gasoline did it consume?
8. A bookstore offers a 20% discount on all books. If the original price of a book is \$25, how much will it cost after the discount?
9. A pizza delivery person earns a base salary of \$8 per hour and receives \$2 for each delivery. If they work for 5 hours and make \$50 in total, how many deliveries did they make?
10. A cell phone plan charges a \$30 activation fee and \$20 per month for service. If a customer's bill is \$230, how many months have they been using the service?