

Name _____



Linear Equation Word Problems

1. Sarah runs a bike rental shop. She charges \$10 for renting a bike for 2 hours and \$5 for every additional hour. If John rented a bike for 5 hours and paid \$25, how much did each additional hour cost him?
2. David is starting a lemonade stand. He invested \$100 for equipment and ingredients. He sells each cup for \$2.50. If his total revenue after selling 60 cups is \$200, what is his profit?
3. Alex has a monthly data plan that costs \$40 for 10 GB of data. He is charged \$10 for every additional GB used. If his monthly bill is \$70 and he used 15 GB of data, how much does he pay per extra GB?
4. Emily is taking a train journey. The cost of a one-way ticket is \$30. She decides to buy a monthly pass for \$250. If she takes the train 15 times in the month, what is the cost per trip using the monthly pass?
5. Michael subscribes to a mobile phone plan that offers unlimited talk and text for \$30 per month. Each GB of data costs \$5 extra. If his bill is \$75 and he used 10 GB of data, how much does each additional GB cost?
6. Lisa is installing a sprinkler system in her garden. She spends \$200 on equipment and \$50 on installation. If she plans to water her garden for 2 hours every day and each hour costs \$0.75 in water usage, what will be her monthly water bill?
7. Sarah joins a fitness club with a monthly membership fee of \$50. Each fitness class costs an additional \$10. If she attends 8 classes in a month and her total bill is \$130, how many classes did she take beyond the included membership?
8. James rents a car for a weekend trip. The rental company charges \$50 per day plus \$0.30 per mile driven. If he drove 200 miles over the weekend and paid \$110, how many days did he rent the car for?
9. Mark subscribes to a cable TV plan that offers 100 channels for \$50 per month. He pays an extra \$0.25 per channel for any additional channels. If his bill is \$65 and he watches 120 channels, how much does each additional channel cost?
10. Emma's monthly electricity bill includes a fixed charge of \$20 plus \$0.15 per kWh used. If her bill for the month is \$80 and she used 400 kWh, what is the cost per additional kWh after reaching the fixed charge?