

Pre-7 Worksheet (2 pages)

Solve the following Word Problems involving Linear Equations.

1. **A plumber charges \$50 to make a house call. He also charges \$25.00 per hour for labor.**

a. Write an equation that you could use to the amount a plumber charges for a house call based on the number of hours of labor. **(Make sure to define your variables)**

b. How much would it cost for a house call that requires 2.5 hours of labor?

c. If the bill from the plumber is \$162.50, how many hours did the plumber work at your house?

2. **Marty is spending money at the average rate of \$3 per day. After 14 days he has \$68 left. The amount left depends on the number of days that have passed.**

a. Write an equation for the situation. **(Make sure to define your variables)**

b. Find the amount of money he began with.

c. How much money does Marty have after 9 days?

3. **A plane loses altitude at the rate of 5 meters per second. It begins with an altitude of 8500 meters. The plane's altitude is a function of the number of seconds that pass.**

a. Write an equation modeling this situation. **(Make sure to define your variables)**

b. Use your equation to find out how much time will pass before the plane will land (hint: what is the altitude when the plane lands?)

