Solve word problems using a system of equations.
1. The sum of two numbers is 26. The larger number is 5 more than twice the smaller number. What are the numbers?

2. The difference of two numbers is 12. Twice the larger number plus the smaller number is 18. What are the numbers?

Money problems:
If I have 3 quarters, I have 75¢. \(3(\text{value of coin}) = \$\text{money}\)
If I have 9 nickels, I have 45¢. \(9(\text{value of coin}) = \$\text{money}\)

\((\text{How many of the item})(\text{Value of the item}) = \$\text{Total money}\)

3. Jan has $5.90 in dimes and quarters. She has a total of 32 coins. How many dimes and how many quarters does Jan have?
4. Elaine spent $5.96 on 12¢ and 26¢ stamps. She bought a total of 31 stamps. How many 12¢ stamps and how many 26¢ did she buy?

5. Alex sold 32 tickets to the high school football game. Adult tickets cost $4.00 and student tickets cost $1.50. Alex collected $103 from the sale of the tickets. How many adult tickets and how many student tickets did Alex sell?

6. Yolanda bought 3 pens and 1 notebook for $1.70. Four days later she bought 2 pens and 2 notebooks for $2.36. What is the cost of each pen and each notebook?