Write a system of equations for each scenario and solve using any method.

1.   A rectangle has a perimeter of 36 cm. Its width is 4 cm less than its length. Find the length and width of the rectangle.

Width _____

Length _____

2.   A theatre sold 900 tickets to a concert. Floor seats cost $12 and balcony seats were $10 each. Total receipts for the concert were $9,780. How many of each type of seats were sold for the concert?

Floor _____

Balcony _____

3.   The sum of two numbers is 36. Their difference is 6. Find both numbers.

Number _____

Number _____

4.   Three bananas and two oranges sell for $1.25. Five bananas and one orange sell for $1.50. What is the cost for each type of fruit?

Banana _____

Orange _____

5.   Last year you mowed grass and shoveled snow for 10 households. You charged $200 a season to mow a yard and $180 a season to shovel snow. If you earned $1,880 last year, how many households did you mow and how many households did you shovel snow?

Mowed _____

Shovel _____

6.   Your family goes out to Chili's for dinner. Chili's charges $9 for an adult dinner and $5 for a child's plate. Ten members of your family went to dinner and your bill was $66. How many adults and children ate at Chili's?

Adults _____

Children _____

7.   Mary has 18 coins with a total value of $2.85. If the coins are dimes and quarters, how many of each type of coins does Mary have?

Dimes _____

Quarters _____

8.   Janie has 196 rock and country CD's that she listens to at home. If there are 76 more rock CD's than country CD's, how many of each type of CD does she own?

Rock _____

Country _____

9.   Homer has four times as many hits in baseball than interceptions in football. Homer has made a total of 120 hits and interceptions. How many of each has Homer made?

Hits _____

Interceptions _____