Setup and Solve Word Problems
Worksheet

Read the word problems below and setup a system of equations to solve. Then solve the system using the method of your choice.

1) Find the value of two numbers if their sum is 12 and their difference is 4.

2) The school that Taylor goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 3 senior citizen tickets and 1 child ticket for a total of $38. The school took in $52 on the second day by selling 3 senior citizen tickets and 2 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.

3) Kristin spent $131 on shirts. Colored shirts cost $28 while plain white shirts cost $15. If she bought a total of 7 shirts, then how many of each kind did she buy?

4) There are 13 animals in the barn. Some are chickens and some are pigs. There are 40 legs total in the barn. How many of each animal are there?

5) A class of 195 students went on a field trip. They took 7 vehicles, some cars and some buses. Find the number of cars and the number of buses they took if each car hold 5 students and each bus hold 45 students.

6) Jessica's Custom Kitchen Supplies sells handmade forks and spoons. It cost the store $1.70 to buy the supplies to make a form and $1.30 to buy the supplies to make a spoon. The store sells forks for $5.60 and spoons for $5.40. Last April Jessica's store spent $37.90 on materials for forks and spoons. They sold the forks and spoons for a total of $147.20. How many forks and spoons did they make last April?

7) Alex works at a music store. Last week she sold 6 more than 3 times the number of CD's that she sold this week. Alex sold a total of 110 CDs over the 2 weeks. How many CD's did Alex sell last week and this week?

8) The length of a rectangle is equal the triple the width. The perimeter of the rectangle is 86 centimeters. Find the length and width.

9) The perimeter of a rectangular wooden deck is 90 feet. The deck's length is 5 feet less than 4 times its width. How long and wide is the deck?

10) Bailey has a bag containing 35 nickels and quarters. The total value of these coins is $2.55. How many quarters and nickels does Bailey have?