Notes - System Word Problems

1) A youth group and their leaders visited Mammoth Cave. Two adults and 5 students in one van paid $77 for the Grand Avenue Tour of the cave. Two adults and 7 students in a second van paid $95 for the same tour. Find the adult price and the student price of the tour.

2) The sum of two numbers is 48, and their difference is 24. What are the numbers?

3) Four times one number minus three times another number is 12. Two times the first number added to 3 times the second number is 6. Find the numbers

4) The length of a rectange is 10 cm more three times the width. The perimeter is 60 cm . What are the length and width of the rectangle?

5) Suppose you have $28 in your bank account and start saving $18.25 each week. Your friend has $161.00 in his account and is withdrawing $15 each week. When will your balances be the same?