Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_

**Show all work and label all answers!**

1. Nicky and Alex both want to buy fish. Nicky buys an aquarium that costs $24 and fish that cost 0.32 each. Alex buys and aquarium that costs $32 and fish that costs 0.22 each.

Both Nicky and Alex spend the same amount of money and buy the same number of fish.

How many fish did Nicky and Alex each buy and how much did each person spend?

1. Stephanie goes to Party City and buys balloons for 0.57 each and a weight holder for $4. Michelle also goes to Party City and buys balloons for 0.83 each and a weight holder for $5. Since the girls are buying the same amount of balloons, they decide to pay for their balloons together. The cashier tells them that they owe $37 in total. How much does Stephanie have to pay? How much does Michelle have to pay?
2. Steve and Laura are going to a carnival. Steve buys a booklet of ride tickets for $29 and then individual tickets for 0.12 each. Laura decides to buy tickets for 0.97 each and receives a $5 discount. Steve and Laura buy the same amount of individual tickets and pay the same final price. How many individual tickets do Steve and Laura buy each? How much do they pay each?

**Solve for X**

1. 5 (x + 2) = 4 (x + 3) 8) 3(x + 5) + 9 = 4 (x -8) + 6x
2. 8 ( 2x +5) = 10 (2x + 3) 9) -6 (3x + 10) = -4(2x – 5)
3. 12 (3x – 2) = 9(4x +3) 10) 8(2x – 3) = 4(4x – 6)
4. 6 + 9(x + 2) = -5(2x – 5)