Name: _____ Class: _____

1.) At a carnival, 700 tickets were sold for a total amount of $5,500. An adult ticket cost $10 and a children's ticket cost $5. Find the number of adult tickets and the number of children's tickets sold.

2.) Seventy concert tickets were sold for $550. Each adult ticket cost $9 and each children's ticket cost $5. Find the number of adult tickets and the number of children's tickets sold.

3.) Membership at Ace Gym is $30 per month plus a one-time registration fee of $100. Membership at Bold's Gym is $50 per month, and there is no registration fee. After how many months will the membership costs be the same at both gyms?
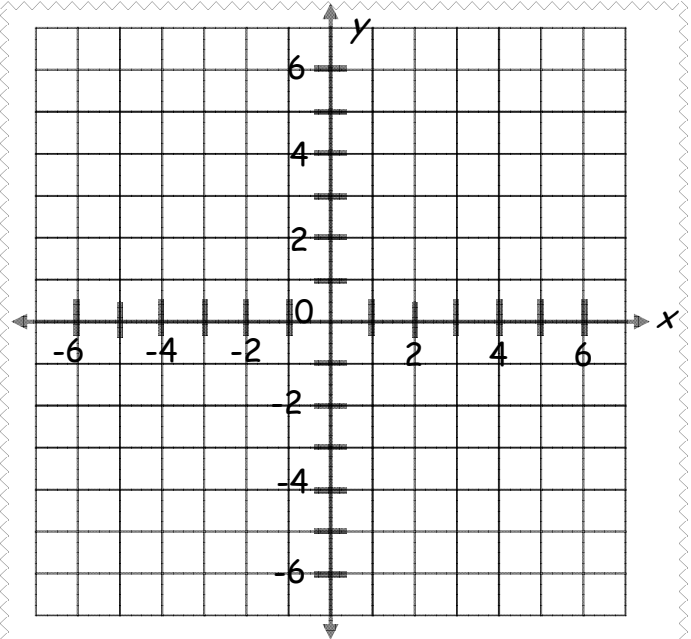
4.) **Directions:** Solve the following system of equations using *all three methods*. Should you get the same answer?

$$y - 3x = 6$$
$$2y + 4x = 2$$

Graphically

Substitution

Elimination

Answers: 1.) 400 adult, 300 children   2.) 50 adult, 20 children   3.) 5 months

4.) (-1,3)