Name: _____ Math A2: Period _____

Systems of Equations Word Problems Day 2 Date: _____

Steps for solving verbal equations:

Step 1: LET STATEMENT: Use two different variables to represent the different unknown quantities in the problem.

Step 2: Translate the two relationships in the problem into a system of two equations.

Step 3: Solve the system of equations

Step 4: Write your answer in a final sentence

1. On one day, 4 gardeners and 4 helpers earned $360. On another day, working the same number of hours and at the same rate of pay, 5 gardeners and 6 helpers earned $480. How much does a gardener and how much does a helper earn each day?

2. At the movie theatre, Matt bought one soda and two boxes of candy for $5.50. Mike bought three sodas and three boxes of candy for $11.25. Find the cost of one soda and the cost of one box of candy.

3. In the summer, the Johnson's and the Smith's decided to go to their local amusement park. In the Johnson family, there are 2 parents and 4 children. In the Smith family there is 1 parent and 3 children. The Johnson's paid $220 and the Smith's paid $140. If the cost of an adult ticket is different than a child's ticket, how much did they pay for each adult's ticket, and each child's ticket?

4. Two families decided to attend a concert. One family, which has 3 adults and 2 children, was charged $340. The second family, which consists of 2 adults and 2 children, was charged $140. If the adults must pay a different price than the children, how much will each type of ticket cost?

5. At the local fast food restaurant, Tom ordered 4 boxes of chicken nuggets and 4 containers of French fries for his friends. He was charged $20. Matt went to the same restaurant and was charged $12 after ordering 2 boxes of chicken nuggets and 3 containers of French fires. Assuming that there is only one price for the chicken nuggets and only one price for the French fries, how much does each item cost?