

1. Carly is training for an upcoming fitness competition and is trying to find a breakfast combination that meets her nutritional requirements of **1200 calories** and **40 grams of protein**. One serving of her cereal of choice has **200 calories and 8 grams of protein**. Her favorite brand of peanut butter contains **300 calories and 5 grams of protein** per serving.

Write a system of equations to find the number of servings for each type of food that would meet both of her nutrition goals.

2. Laura and Andy are trying to earn money to buy airplane tickets to visit their favorite aunt, Annie. Laura's ticket is going to cost her **\$400 to visit** their favorite aunt, Annie. Andy's ticket is going to cost him **\$350 money**, they have both decided to mow lawns and babysit. Laura charges **\$8 per hour** for babysitting while Andy charges **\$7 per hour**. To mow a lawn, Laura charges **\$20 per lawn** while Andy charges **\$10 per lawn**.

Write a system of equations to find the number of hours each needs to babysit and to find how many lawns they each need to mow.