Name_____ Period_____

Write a system of equations for each word problem and solve the system by any method you wish.

1) Andy's Cab Service charges a \$6 fee plus \$0.50 per mile. His twin brother Randy starts a rival business where he charges \$0.80 per mile but does not charge a fee. For what distances should a customer use Andy's Cab Services? For what distances should a customer use Randy's Cab Services?

2) Find two numbers such that the sum of the first and three times the second is 5 and the sum of the second and two times the first is 8.

3) A store sells Brazilian coffee for \$10 per pound and Columbian coffee for \$14 per pound. The store decides that it wants to mix these two types of coffee into 150-pound bags which sell for \$1650. How many pounds of each kind of coffee should they use?

4) Pam has two part-time jobs. At one job, she works as a cashier and makes \$11.50 per hour. At the second job, she works as a tutor and makes \$23.50 per hour. One week she worked 30 hours and made \$429. How many hours did she spend at each job?