$\qquad$ Math Lab $\qquad$

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?
