Name: _____   Date: _____

Algebra I

Directions: Form let statements using variables, set up two equations, and solve algebraically.

1. A salesclerk in a clothing store sold a customer 3 pairs of jeans and 4 t-shirts for $147. The next day for the same prices another customer bought 5 pairs of jeans and 3 t-shirts for $179. Find the price of a pair of jeans and a t-shirt.

2. A supermarket sold 5 bags of apples and 3 bags of oranges for $38. For the same prices, 4 bags of apples and 2 bags of oranges sold for $28. Find the price of one bag of each.

3. In a boutique, 2 scarves and 5 pairs of gloves sold for $80. At the same prices, 4 scarves and 6 pairs of gloves sold for $120. Find the price of one scarf and one pair of gloves.

4. The deli sold 10 bags of pretzels and 8 bags of potato chips on Monday for $42. On Wednesday, the deli sold 15 bags of pretzels and 5 bags of potato chips for $52.50. Find the cost of one bag of each type of snack.

5. A stationery store sold 12 packages of pens and 15 packages of notebooks for $231. At the same prices, the store sold 9 packages of pens and 12 packages of notebooks for $180. Find the price of one package of pens and one package of notebooks.

6. A tennis shop sold a junior team 15 cans of tennis balls and 12 tennis rackets for $477. A second team bought 11 cans of tennis balls and 9 tennis rackets at the same prices for $357. Find the price of one can of tennis balls and one tennis racket.