

$$9. \quad 2x - \frac{y+3}{4} = 7 + \frac{3y-2x}{5}.$$

$$4y - \frac{8-x}{3} = 24 - \frac{1}{2} - \frac{2y+1}{2}.$$

$$10. \quad \frac{1}{x} + \frac{1}{y} = a.$$

$$\frac{1}{x} - \frac{1}{y} = b.$$

## EXERCISE L.

*Problems:*

1. The cost of 7 lbs. of tea and 5 lbs. of coffee is \$5.15; the cost of 4 lbs. of tea and 9 lbs. of coffee is \$5.10. What is the cost of 1 lb. of each?

2. Six pounds of tea and eleven pounds of sugar cost \$3.54, and eleven pounds of tea and six pounds of sugar cost \$5.64. Find the cost of tea and sugar per pound.

3. Five turkeys and four geese can be bought for \$5.76, and seven turkeys and three geese can be bought for \$6.66. What is the value of each fowl?

4. Thirteen horses and eight cows can be bought for \$1,166, and nine horses and twelve cows can be bought for \$1,014. What is the value of each animal?

5. If the numerator of a fraction be increased by 2 and the denominator by 4 it becomes equal to  $\frac{13}{4}$ ; and, if the numerator and denominator are each diminished by 3, it becomes equal to  $\frac{1}{4}$ . Find the fraction.

6. Three times B's age exceeds A's age by 72 years, and one-half of A's age is less than B's age by 17 years. Find their ages.

7. The sum and the difference of a number of two digits and of the number formed by reversing the digits are 143 and 45 respectively. Find the number.