Name:
Date: $\qquad$
Algebra I
Directions: Form let statement(s), set up an algebraic equation, and solve algebraically.

1. Find two numbers whose ratio is $5: 2$ and whose sum is 56 .
2. Find two numbers whose ratio is $4: 1$ and whose difference is 36 .
3. The ratio of the number of boys in a school to the number of girls is $13: 7$. If there are 760 students in the school, how many boys and how many girls are there?
4. Two business partners agree to share their profits in a ratio of $5: 2$. One year the profits were $\$ 63,000$. How much did each partner receive?
5. Find the number of degrees in each angle of a triangle if the measures of the three angles are in a ratio of $2: 5: 8$.
6. Two numbers are in a ratio of $2: 3$. If the larger number is 54 , find the smaller number.
7. Two numbers are in a ratio of $4: 5$. If 25 is added to the smaller and the larger is decreased by 30 , the resulting numbers are equal. Find the original numbers.
8. In a basketball foul shooting contest, the points made by John and Joe were in the ratio $3: 7$. Joe made 8 more points than John. Find the number of points made by each.
