Date:

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.