**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_**

**Algebra 1 Solving Equations Problems**

1. The sum of four consecutive integers is -66. Find the integers.
2. The sum of four consecutive odd integers is 168. What are the integers?
3. The measure of two complementary angles can be represented as 5x + 5 degrees and 2x + 1 degrees.
4. Find x:\_\_\_\_\_
5. Find the measure of each angle.
6. Eight less than six times a number is equal to four more than three times the number. Write an equation and solve for the number.
7. Scott mows lawns for $15 each. How many lawns does he have to mow in order to save up $400 if he has already saved $100? Write an equation and solve.
8. The perimeter of the rectangle below is 114 meters.
9. Find x.
10. Find the measure of each side.

3x – 8

x + 5

1. The three angles of a triangle are (x + 5)°, (5x + 10)° and (5x)°.
2. Find x.
3. Find the measure of each angle.
4. The perimeter of the triangle below is 73 meters.

4x + 3

3x – 2

2x

1. Solve for x.
2. Find the measure of each side of the triangle.
3. The given angles below are vertical angles.
4. Find x.
5. Find the measure of each angle.

3x + 6

2x + 15

1. The given angles below are vertical angles.
2. Find x.
3. Find the measure of each angle.

4x – 15

2x + 45