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

**Algebra 1 Solving Equations Problems**

1. The sum of four consecutive integers is -66. Find the integers.
2. The sum of three consecutive even integers is -138. What are the numbers?
3. The sum of four consecutive odd integers is 168. What are the integers?
4. The perimeter of a rectangle is 66 cm. The length of the rectangle is 3 less than twice the width. Find the length and the width of the rectangle. (Make sure you draw your rectangle before you work it out.)
5. The length of a rectangle is two more than five times the width. If the perimeter is 76 inches, what are the length and the width of the rectangle?
6. The perimeter of the rectangle below is 114 meters.
7. Find x.
8. 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