**Section 1–4B: Geometric Word Problems**

**Geometry Review:**

* The area of rectangle is:
* The perimeter of rectangle is:
* All angles of a triangle must equal to 180o.
* Two angles are **complementary** if the sum of their measures is 90o.
* Two angles are **supplementary** if the sum of their measures is 180o.

**Example 1:**

Find 2 complementary angles if one is 24o less than twice the other.

**1. Relate:** Angle 1 Plus Angle 2 Equals Complementary Angles

**2. Define:** Let Angle 1

Then Angle 2

**3. Write:**

**4. Solve:**

**5. Result:** Angle 1

Angle 2

**6. Check:**  =

=

=

=

**Example 2:**

The length of a rectangle is 10 feet more than the twice the width. Find the dimensions if the perimeter is 62 feet.

**1. Relate:** 2Length Plus 2Width Equals Perimeter

**2. Define:** Let Length

Then Width

**3. Write:**

**4. Solve:**

**5. Result:** Length

Width

**6. Check:**  =

=

=

=

=

=