**Geometry Problems Quiz -- KEY**

1. An angle is equal to 20 degrees more than four times its  
 complement. Find the measure of the angle and the measure of  
 the complement.

2. A triangle with two equal angles is called isosceles. Find all of the  
 angles of an isosceles triangle if the third angle is 30 degrees more   
 than the measure of one of the equal angles.

3. The length of a rectangle is 14 mm longer than five times the   
 width. Find the length and width of the rectangle if the  
 perimeter is 148 mm.

4. The area of a trapezoid is 75 square inches. If the height is 10   
 inches and one of the bases is 3 inches. Find the length of the   
 other base.

**Answers:** 1) 76°, 14° 2) 50°, 50°, 80° 3) 10mm, 64 mm 4) 12 in