Algebra 1 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2-5 Perimeter Problems Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_

**Perimeter of Rectangles**

Write and solve an equation to find the **length and width** of the rectangles below.

 y - 6

1) x + 5 2)

 x y

 Perimeter = 46 in. Perimeter = 28 ft.

3) The length of a rectangle is 6 in. longer than the width. If the perimeter

 of the rectangle is 96 in., find the length and the width of the rectangle.

4) The length of a rectangle is 2 in. longer than twice the width. If the

 perimeter of the rectangle is 100 in., find the length and the width of

 the rectangle.

5) The width of a rectangle is half the length. The perimeter is 54. Find the length and

 width of the rectangle.

6) The length of a rectangle is 4 in. longer than twice the width. If the perimeter

 of the rectangle is 104 in., find the length and the width of the rectangle.

7) The perimeter of an isosceles triangle is 111. One side of the triangle is 3 in. longer

 than the other two sides. Find the length of all three sides of the triangle.

8) In a regular pentagon, all sides are congruent. The perimeter of a regular pentagon is

 285. Find the length of a side of the pentagon.