Name:	Date:
Algebra I	
Directions: Set up let statements, draw correspondence	onding pictures, write an equation, and solve.
	e area of a square. If the length of the rectangle is 4 inches more ectangle is 2 inches less than the side of the square, find the
2. The width of a rectangle is 3 mm less than its increased by 7 mm, the area is unchanged. Find	length. If the length is decreased by 5 mm, and the width is the dimensions of both figures.
3. The width of a rectangle is 2 cm less then lengwidth is decreased by 4 cm, the areas are unchar	gth of the rectangle. If the length is increased by 6 cm and the nged. Find the dimensions of both figures.
	etangle by 1 sq. in. If the length of the rectangle is 5 in. more less than the side of the square, find the dimensions of both

5. The length of a rectangular garden exceeds the width by 8 ft. If the length is increased by 4 ft. and the width is decreased by 2 ft., the area of the original garden is 8 sq. ft. more than the area of the new garden. Find the dimensions of the original garden.
6. If one side of a square is increased by 6 in., and an adjacent side is decreased by 4 in., the areas of both shapes are the same. Find the dimensions of both shapes.