

Group Members: _____

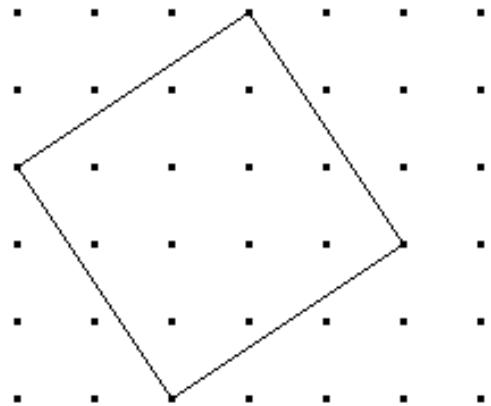
1. Use the table below to record your answers.

- (a) Let I equal the number of dots inside the shape. Find I for each of the shapes in problem 1.
- (b) Let B equal the number of dots that lie on the shape. Find B for each of the shapes in problem 1.
- (c) Compute $I + \frac{1}{2}B - 1$ for each of the shapes in problem 1.
- (d) Your answer from part (c) should match up with the areas you computed in problem 1. Do they? That is precisely what **Pick's Theorem** says: The area of a shape constructed on dot paper is equal to $I + \frac{1}{2}B - 1$.

	I	B	$I + \frac{1}{2}B - 1$
Figure 1(a)			
Figure 1(b)			
Figure 1(c)			
Figure 1(d)			
Figure 1(e)			

2. Consider the square drawn on dot paper below.

- (a) Find the area of this square using the definition of area. (i.e. you may not use any area formulas)



- (b) Find the area of this square using Pick's Theorem.