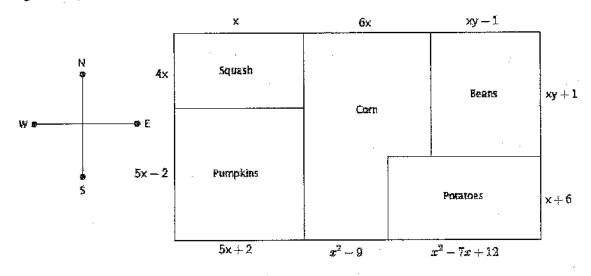
Performance Task – Expressions & Operations A.2bc Polynomial Farm

Names: _	
Date:	Block:

Directions: Farmer Bob is planting a garden this spring. He wants to plant squash, pumpkins, corn, beans, and potatoes. His plan for the field layout in feet is shown in the figure below. Use the figure and your knowledge of polynomials, perimeter, and area to solve the following:



1. Write an expression that represents the length of the south side of the field.

$$(5x+2)+(x^2-q)+(x^2-7x+1a)$$

2. Simplify the polynomial expression that represents the south side of the field.

Combine
$$2x^2 - 2x + 5$$

$$2x^2 - 2x + 5$$

3. Write a polynomial expression that represents the perimeter of the pumpkin field.

 $2(5\kappa-a) + 2(5\kappa+a)$ 4. Simplify the polynomial expression that represents the perimeter of the pumpkin field. State one reason why the perimeter would be useful to Farmer Bob.

might be useful if Bob wanted to put a Fence around the pumpkin field. 54-2 5x-2 5x+2

5. Write a polynomial expression that represents the area of the potato field

$$(x+6)(x^2-7x+12)$$

