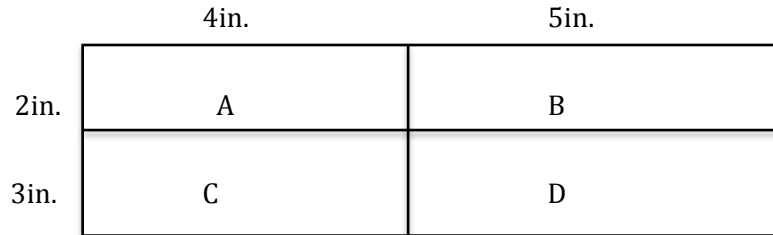


## Polynomial Farm

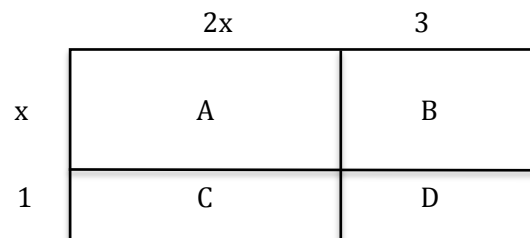
**Part I** (Intro & Investigate)

- Find the perimeter and area of each small rectangle (A, B, C and D). Find the perimeter and area of the large rectangle composed of A, B, C and D.



	Perimeter	Area
A		
B		
C		
D		
Large Rectangle		

- Find the perimeter and area of each small rectangle (A, B, C and D). Find the perimeter and area of the large rectangle composed of A, B, C and D. All measures given are in inches.

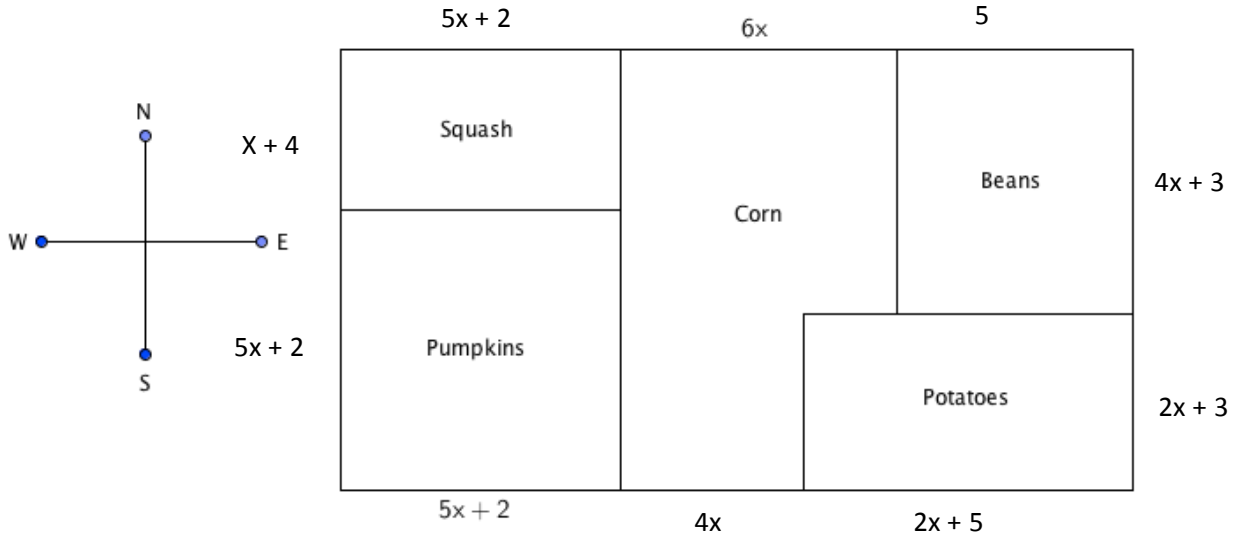


	Perimeter	Area
A		
B		
C		
D		
Large Rectangle		

### Polynomial Farm

**Part II** (Apply)

**Directions:** Farmer Bob is planting a field of crops 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:

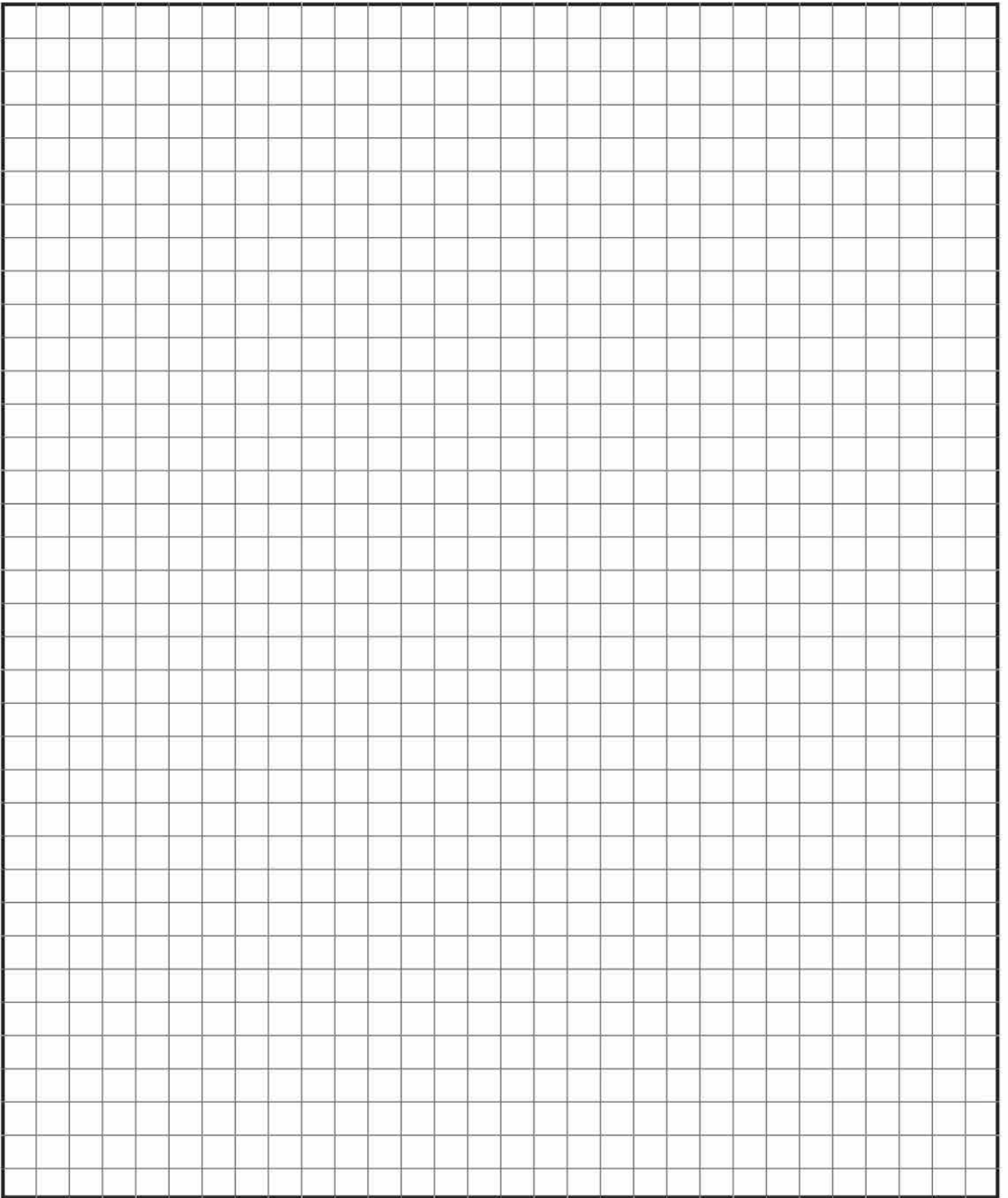


3. Write a simplified expression that represents the length of the south fence line.
  
4. Find the perimeter of the pumpkinfield.
5. Find the area of the squash field.
  
6. Find the perimeter and area of each section of the Field.

	Perimeter	Area
Squash		
Pumpkin		
Beans		
Potatoes		
Corn		
Entire Field		

Extension: a) In this field scenario, is  $x$  a variable or an unknown quantity? \_\_\_\_\_

b) If it is variable, explain. If it is an unknown quantity, use equivalent lengths to find  $x$ .



**Chris Shore, 2019**  
**C-P-A Progression**

