Name:

Paths

Katrina is planning to make a path in her garden. Two different paths with Katrina's same general design are shown below.







2. Complete the table below

Path Number	Number of Gray Tiles	Number of White Tiles	Total Number of Tiles
1			
2			
3			
4			
5			
6			

3. A direct formula for the number of white tiles in each path is W = P, where W stands for the number of white tiles and P for the path number.

(a) Write adirect formula to find the number of gray tiles, G, in any path number, P.

- (b) Make a drawing using tiles patterns to show how your formula can be used to find the number of gray tiles.
- (c) Write a direct formula for the total number of tiles, T, if you know the path number, P. Explain your reasoning.