Gardens of Delight

Here is a map of Ms. McGinty’s cucumber garden. In this map each square corresponds to an area of 1 square yard. The side of each square is one yard long.

Ms. McGinty's cucumbers
1. What is the area of Ms. McGinty's cucumber garden? What is the perimeter of her garden?

2. Ms. Reilly has planted a cucumber garden with a larger area than Ms. McGinty's garden. However, Ms. Reilly does not need as much fence to enclose her garden. Using the same grid, draw a possible map of Ms. Reilly’s garden.

What is the area of the garden you drew for Ms. Reilly?

What is its perimeter?
3. Ms. Duffy has planted a cucumber garden with a smaller area than Ms. McGinty's garden. However, Ms. Duffy’s needs more fence to enclose her garden than Ms. McGinty needs to enclose hers. Again, using the same grid, draw a possible map of Ms. Duffy's garden.

What is the area of the garden you drew for Ms. Duffy? What is the perimeter?