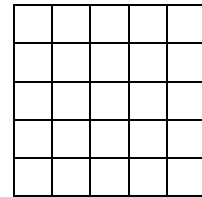


## Classroom Chaos 4

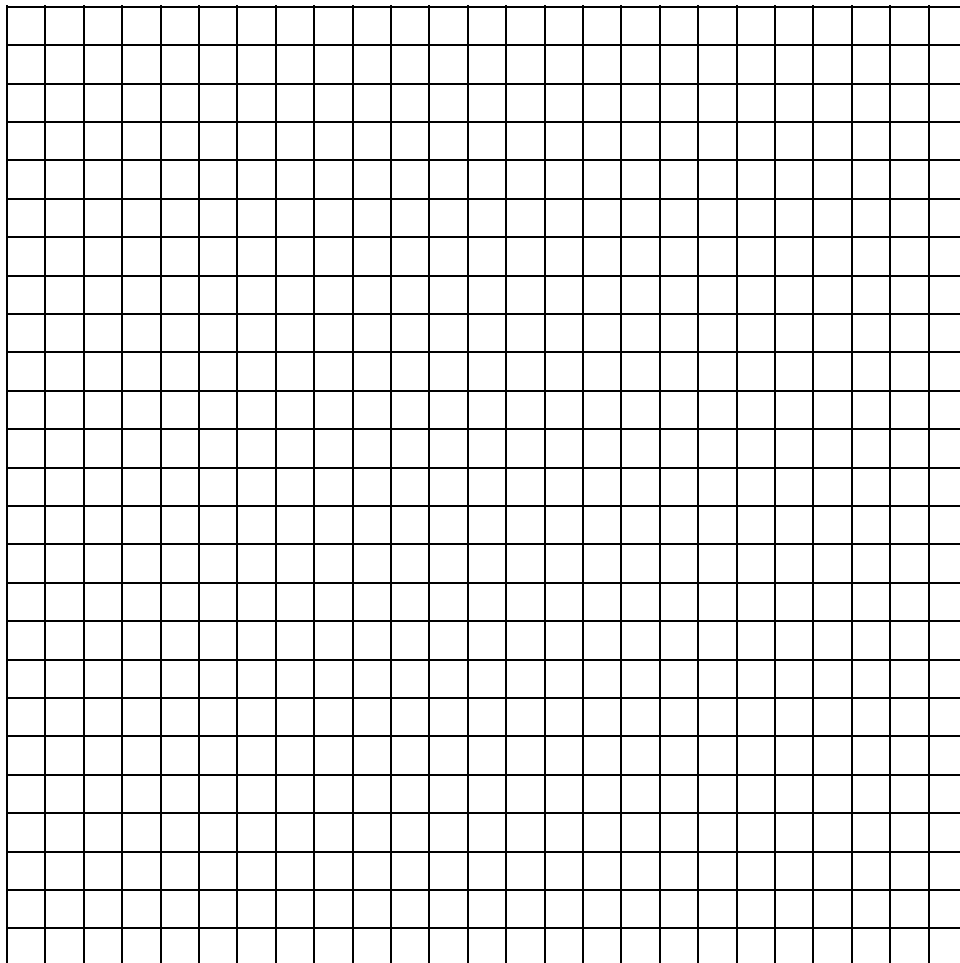
Dr. Richard A. DiDio  
La Salle University

## 1. Five Queens

Place 5 Queens on the following mini chess board so that no Queen is under attack from any other.

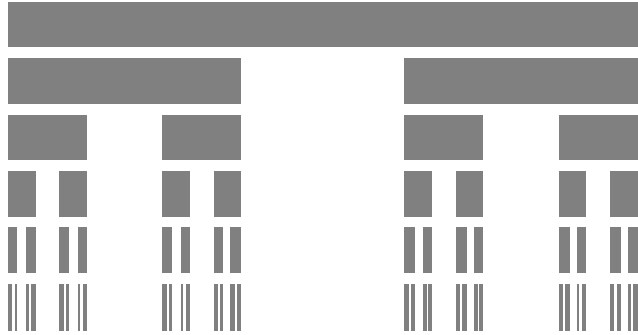


## 2. Twenty Five Queens: 5 times as difficult?

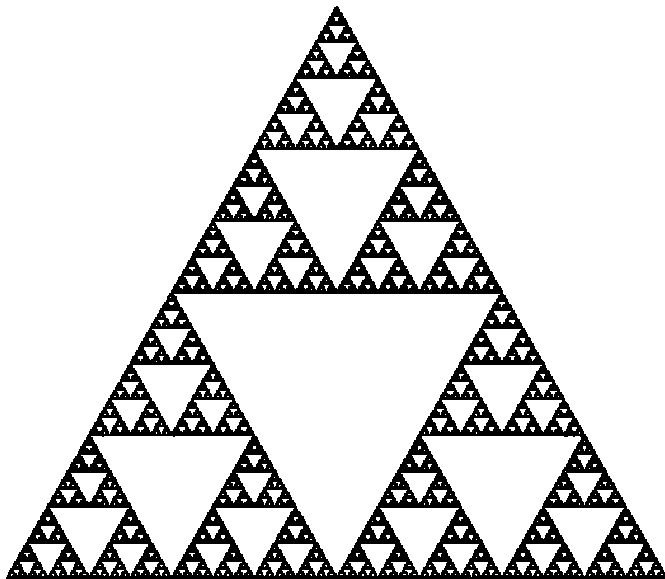


### 3. Cantor Dust

Use the covering method to determine the dimension of the Middle Thirds Cantor Set.

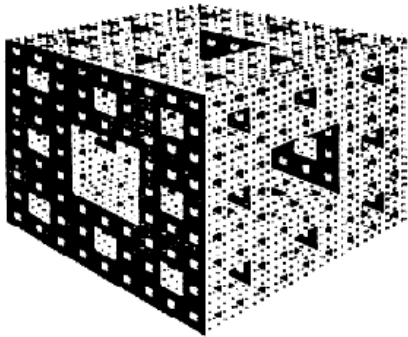


### 4. The Sierpinski Triangle: 1-D or 2-D? You make the call.



## 5. The Menger Sponge

Is it suitable for a carwash?



## 6. How long is the coast of New Jersey?

Pick any map of Jersey. Find the fractional dimension of the coastline empirically by measuring with a set of very small toothpicks.

