GEOG 380-01 Fall 2018 Name: _____

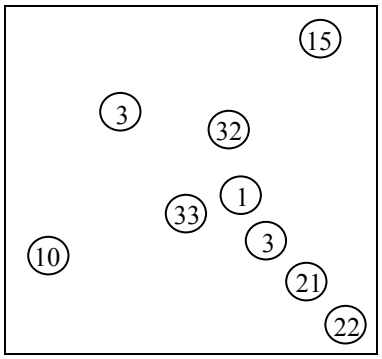
Worksheet 3. Placing dots

Assigned: Oct. 16, 2018 **Due date:** Oct. 23, 2018
Total credit: 30 points

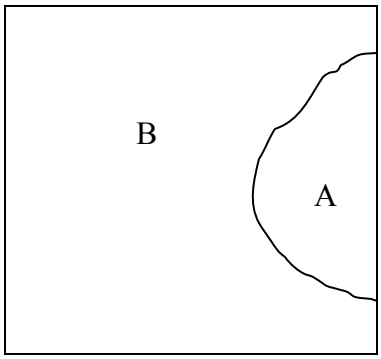
Recall the lecture note 14 "Dot Density Maps1", especially the slide "Placing dots". Three methods to decide point location in dot density mapping were described including: uniform, geographically weighted, and geographically based. Look at the two maps below, "Original observations" and "Ancillary information". The Original observation map shows distributions of 9 dots showing certain geographical phenomena. Values inside the dots mean magnitude of the phenomena measured—such as pH values. The Ancillary information map shows how the phenomena are "likely" observed in the study area.

Question: Place the 9 dots in the maps 1, 2, and 3 below based on the methods of dot placement: uniform, geographically weighted, and geographically based. Show values in each dot.

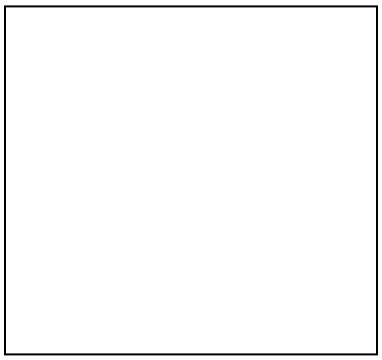
Hint: The values inside the dots will be useful to answer for the map, "2. Geographically weighted". Use the "Ancillary information" map below to answer for the map, "3. Geographically based". The Ancillary information map tells that the phenomena are generally occurred in the area B rather than the area A.

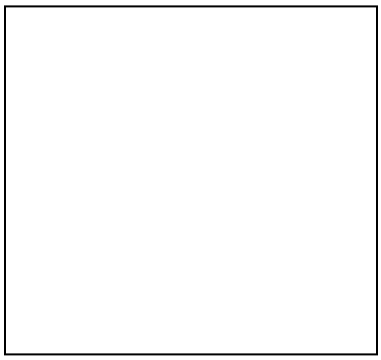


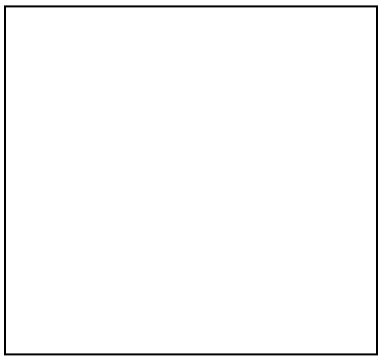
Original observations



Ancillary information


1. Uniform


2. Geographically weighted


3. Geographically based

- Either a hard copy or a digital copy can be submitted.