

The square-shaped Borough of Tarishay is trying to select a site to construct a new elementary school. They are trying find a site that will be both physically suitable and convenient to the most people. The city used three maps, described as follows, to assist them during their site selection process.

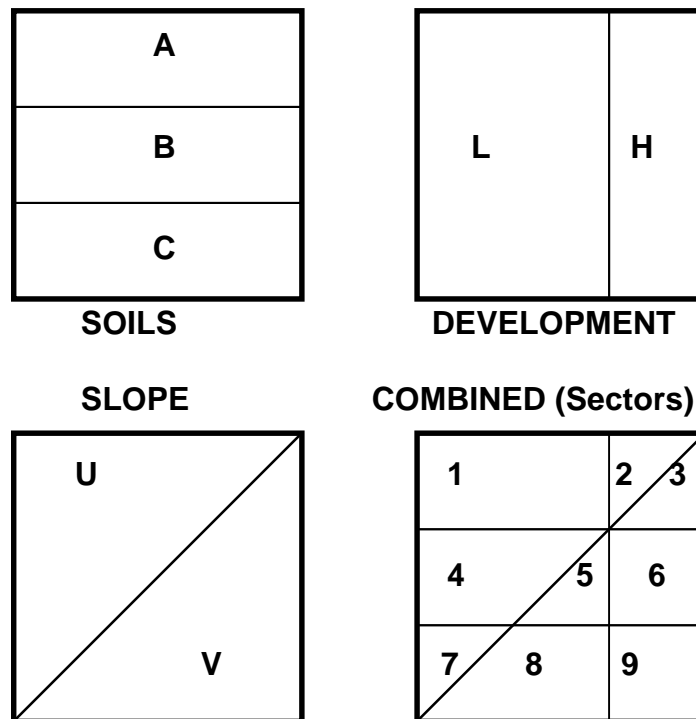
The soils are categorized as:

A = hydric (least appropriate for development)

B = unstable (intermediate)

C = well drained and stable (most appropriate for development)

The area of highest density is H and the area of lowest density is L. Because of the issue of convenience, the planner considers the area of high density to be more suitable.



The slopes are gentle in U, and very steep in V. The planner considers the steep slopes of area V to be less desirable locations for the project.

The planner of Tarishay decided to use a weight and rate process in which the soils factors should be weighted 3, slopes weighted 4, and development weighted 5 (on a scale of one to five where one is insignificant and 5 is very important). The planner also uses a rating of one (worst), two (intermediate), and three (preferable). When only two categories are present, the planner uses only a one and a three.

The map labeled “combined” provides a numbered sector scheme as a reference for these questions.

1. The weight and rate process is especially helpful for this problem because:
 - a) The planner does not know his/her community’s value system
 - b) The best soils, slopes, and densities do not occur all together in any one sector
 - c) The best sector for development might not be a square
 - d) It requires easier math than any other form of site selection
 - e) All of the above

2. Based on the numbering in the “combined” map, identify the sector of Tarishay that the planner -- using his/her previously mentioned weights -- would select as most preferable.
 - a) Sector 2
 - b) Sector 6
 - c) Sector 8
 - d) Sector 9
 - e) Cannot be determined

3. Based on the numbering in the “combined” map, identify the sector of Tarishay that the planner -- using his/her previously mentioned weights -- would select as LEAST preferable.
 - a) Sector 3
 - b) Sector 5
 - c) Sector 7
 - d) Sector 8
 - e) Cannot be determined

4. The planner for Tarishay just left for a job in Captial City. But the new planner can't find his work and has to redo the analysis on his own. All he knows is that slope. Development and soils were used as criteria. Clearly, everything could end up different, but one element is most likely to undergo serious change because of its relative subjectivity?
 - a) the rates
 - b) the weights
 - c) the mapping of soils and development
 - d) All of the above
 - e) None of the above (if it was done right, there would be no room for change)