**Exercise**

Example: A sampling of 100 sponges of each morphology (Mp1, Mp2, Mp3 and Mp4) that were randomly selected looking for the presence of *Parazoanthus* sp1, *Parazoanthus* sp2 and *Parazoanthus* sp3. The results of the sampling were:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Sp1 | Sp2 | Sp3 |
| Mp1 | 45 | 32 | 45 |
| Mp2 | 65 | 0 | 77 |
| MP3 | 78 | 54 | 99 |
| Mp4 | 90 | 42 | 1 |

Please determine if:

1. Is the sample size adequate to evaluate use and preference using intervals?
2. Is the use of the morphologies uniform or not?
3. Is the use of the morphologies different from random use?
4. Apply the most important preference index.
5. Apply the Bayer confidence intervals.
6. Which one of the morphologies is preferred? Which one is used?
7. Make a contras histogram graphic for sp2.
8. Make a contras histogram for all the species.
9. Make a radial graph for sp3.
10. Make a radial graph for all the species.
11. Export all the graphics generated to a new document.
12. Apply all the indexes of preference and niche breadth, and export the result to a new document.
13. Erase the content of all the pages of the application.