Can you explain is it true that parametric tests are generally more powerful than nonparametric tests? If so, give two reasons why you might choose to use a nonparametric test instead of a parametric test.

Can you explain if a researcher is examining preferences among four new flavors of ice cream. A sample of n = 80 people is obtained. Each person tastes all four flavors and then picks a favorite. The distribution of preferences is as follows. Do these data indicate any significance preferences among the four flavors? Test at the .05 level of significance.

|  |  |  |  |
| --- | --- | --- | --- |
| Ice Cream Flavor | | | |
| A | B | C | D |
| 12 | 18 | 28 | 22 |