1. In a cross between ivory and red snapdragons the following counts were observed in the F2 generation.

|  |  |
| --- | --- |
| Phenotype Number of plants | Number of plants |
| Red | 20 |
| Pink | 55 |
| Ivory | 25 |

On the basis of these data, can segregation be assumed to occur in the simple Mendelian ratio of 1:2:1?

2. It is suspected that different combinations of temperature and humidity affect the number of defective articles produced in a certain workroom. Do the following data confirm this suspicion? (5% level) (Yes, since adj. χ2 = 5.95)

|  |  |  |  |
| --- | --- | --- | --- |
| Humidity | | | |
| Temperature |  | Low | High |
| Low | 10 | 5 |
| High | 4 | 16 |