Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Investigation 11: **Independent or Not Independent Events?**

**Exit Ticket**

The students selected in the original sample collected by the computer science class also answered the question of whether or not a student participates in the school’s extracurricular activities. Based on this sample, do you think that the events of participation in a school’s extracurricular activities and grade level are likely to be independent events in the population? Explain your answer.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Participates in the school’s extracurricular activities** | **Does not participate in the school’s extracurricular activities** | **Total** |
| **1st or 2nd year student** | 34 | 6 | 40 |
| **3rd or 4th year student** | 6 | 54 | 60 |
| **Totals** | 40 | 60 | 100 |