|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Grade** | **Freshman** | **Sophomore** | **Junior** | **Senior** |
| **A** | 0 | 8 | 9 | 10 |
| **B** | 0 | 6 | 8 | 11 |
| **C** | 1 | 7 | 9 | 12 |
| **D** | 2 | 4 | 1 | 4 |
| **F** | 0 | 6 | 2 | 1 |
| **Total** | **3** | **31** | **29** | **38** |

What is the probability that the student is a junior and makes a B in the course?

What is the probability that the student does not make a A in the course, given that the student is a senior?

What is the probability that the student makes a D or F in the course?

Let A be the event that a sophomore is taking the course. Let B be the event that the student makes a C in the course. Are the events A and B independent? Are the events A and B mutually exclusive?