Fill In The Blanks…

**More Tree Diagrams for Independent Events**

|  |  |  |  |
| --- | --- | --- | --- |
| **Question** | **Tree Diagram** | **Probability** | |
| Two students, Maria and Maysoon each sit their driving theory exam. Complete the tree diagram and calculate the probability of each outcome. |  |  |  |
|  |  |
|  |  |
|  |  |
| A biased coin is tossed once and then tossed again for a second time. Complete the tree diagram and calculate the probability of each outcome. |  |  |  |
|  |  |
|  |  |
|  |  |
| A car travels through two sets of traffic lights. The probability of stopping at each set is the same. Complete the tree diagram and calculate the probability of each outcome. |  |  |  |
|  |  |
|  |  |
|  |  |
| There are 12 red or blue balls in a box. There are more blue balls than red balls. A ball is removed at random, the colour recorded, then replaced. A second ball is then removed. Complete the tree diagram and probabilities. |  |  |  |
|  |  |
|  |  |
|  |  |