**Probability - Word Questions (2 or 3 events)**

|  |  |  |
| --- | --- | --- |
| Name : | Class : | Date : |

|  |  |  |
| --- | --- | --- |
| Mark : | /6 | % |

|  |  |
| --- | --- |
| **1)** Two dice are rolled. What is the probability that the sum of the two dice is 10?      | [1]   |
| **2)** Two dice are rolled. What is the probability that the product of the two dice is 6?      | [1]   |
| **3)** Two dice are rolled. What is the probability that the sum of the two dice is greater than 7?      | [1]   |
| **4)** Suppose you roll a special 13-sided die twice.What is the probability that the numbers rolled are a 4 **and** a 7?        | [1]   |
| **5)** Arthur picks two beads out of a box that contains 3 yellow beads and 4 blue beads.Note that he returns the first bead to the jar before he picks the second.Find the probability that Arthur picks two yellow beads.        | [1]   |
| **6)** Three beads are picked from a box containing 4 red beads and 6 green beads.Note that each bead is put back before the next is selected.Find the probability of picking three red beads.        | [1]   |

**Solutions for the assessment Probability - Word Questions (2 or 3 events)**

|  |  |
| --- | --- |
| **1)** P(sum is 10) =  $\frac{1}{12}$ | **2)** P(product is 6) =  $\frac{1}{9}$ |
| **3)** P(sum  $>7$) =  $\frac{5}{12}$ | **4)** P(4 **and** a 7) =  $\frac{1}{169}$ |
| **5)** P(Y and Y) = 9/49 | **6)** P(3R) = 8/125 |