**Simple Probability - tables of data**

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

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1)** The scores for a group of students are recorded in the table below.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Score** | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| **Frequency** | 2 | 1 | 14 | 5 | 11 | 3 | 2 |

Find the probability of selecting a studenta)  with a score of 14       b)  with a score of 11        | [1]   |
| **2)** The scores for a group of students are recorded in the table below.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Score** | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| **Frequency** | 2 | 1 | 7 | 4 | 5 | 1 | 2 |

Find the probability of selecting a studenta)  with a score less than or equal to 6       b)  with a score greater than 7        | [1]   |
| **3)** The scores for a group of students are recorded in the table below.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Score** | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| **Frequency** | 1 | 2 | 20 | 16 | 10 | 2 | 1 |

Find the probability of selecting a studenta)  with a score less than or equal to 7       b) with a score greater than 6        | [1]   |
| **4)** The test results of 84 students is recorded in the two-way table below. One student is chosen at random.

|  |  |  |
| --- | --- | --- |
|   | **Grade** | **Total** |
| **A** | **B** | **C** |
| **Male** | 8 | 10 | 12 | 30 |
| **Female** | 20 | 18 | 16 | 54 |
| **Total** | 28 | 28 | 28 | 84 |

Find the probability that the student is female and got a grade B.           | [1]   |
| **5)** The test results of 72 students is recorded in the two-way table below. One student is chosen at random. Find the probability that the student got a B.

|  |  |  |
| --- | --- | --- |
|   | **Grade** | **Total** |
| **A** | **B** | **C** |
| **Male** | 6 | 10 | 15 | 31 |
| **Female** | 20 | 3 | 18 | 41 |
| **Total** | 26 | 13 | 33 | 72 |

      | [1]   |
| **6)** The test results of a group of students is recorded in the two-way table below. One student is chosen at random. Find the probability that the student got a B.

|  |  |
| --- | --- |
|   | **Grade** |
| **A** | **B** | **C** |
| **Male** | 3 | 19 | 18 |
| **Female** | 16 | 6 | 14 |

      | [1]   |

**Solutions for the assessment Simple Probability - tables of data**

|  |  |
| --- | --- |
| **1)** a) P(score of 14) = 3/38, b) P(score of 11) = 7/19 | **2)** a) P(less than or equal to 6) =  $\frac{7}{11}$, b) P(greater than 7) =  $\frac{3}{22}$ |
| **3)** a) P(less than or equal to 7) =  $\frac{23}{52}$, b) P(greater than 6) =  $\frac{49}{52}$ | **4)** P(female and got a grade B) =  $\frac{3}{14}$ |
| **5)** P(got a B) =  $\frac{13}{72}$ | **6)** P(got a B) =  $\frac{25}{76}$ |