**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** | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| **Frequency** | 3 | 2 | 5 | 15 | 9 | 2 | 2 |

Find the probability of selecting a studenta)  with a score of 14       b)  with a score of 13        | [1]   |
| **2)** The scores for a group of students are recorded in the table below.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Score** | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| **Frequency** | 2 | 3 | 4 | 6 | 4 | 2 | 3 |

Find the probability of selecting a studenta)  with a score less than or equal to 10       b)  with a score greater than 11        | [1]   |
| **3)** The scores for a group of students are recorded in the table below.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Score** | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| **Frequency** | 3 | 2 | 10 | 8 | 17 | 1 | 2 |

Find the probability of selecting a studenta)  with a score less than or equal to 3       b) with a score greater than 2        | [1]   |
| **4)** The test results of 64 students is recorded in the two-way table below. One student is chosen at random.

|  |  |  |
| --- | --- | --- |
|   | **Grade** | **Total** |
| **A** | **B** | **C** |
| **Male** | 8 | 15 | 9 | 32 |
| **Female** | 2 | 13 | 17 | 32 |
| **Total** | 10 | 28 | 26 | 64 |

Find the probability that the student is male and got a grade A.           | [1]   |
| **5)** The test results of 68 students is recorded in the two-way table below. One student is chosen at random. Find the probability that the student is female.

|  |  |  |
| --- | --- | --- |
|   | **Grade** | **Total** |
| **A** | **B** | **C** |
| **Male** | 9 | 12 | 18 | 39 |
| **Female** | 2 | 11 | 16 | 29 |
| **Total** | 11 | 23 | 34 | 68 |

      | [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** | 20 | 13 | 18 |
| **Female** | 9 | 17 | 8 |

      | [1]   |

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

|  |  |
| --- | --- |
| **1)** a) P(score of 14) = 9/38, b) P(score of 13) = 15/38 | **2)** a) P(less than or equal to 10) =  $\frac{5}{24}$, b) P(greater than 11) =  $\frac{5}{8}$ |
| **3)** a) P(less than or equal to 3) =  $\frac{23}{43}$, b) P(greater than 2) =  $\frac{28}{43}$ | **4)** P(male and got a grade A) =  $\frac{1}{8}$ |
| **5)** P(is female) =  $\frac{29}{68}$ | **6)** P(got a B) =  $\frac{6}{17}$ |