**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** | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| **Frequency** | 1 | 3 | 11 | 7 | 5 | 3 | 1 |

Find the probability of selecting a studenta)  with a score of 4       b)  with a score of 7        | [1]   |
| **2)** The scores for a group of students are recorded in the table below.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Score** | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| **Frequency** | 3 | 2 | 8 | 5 | 6 | 3 | 3 |

Find the probability of selecting a studenta)  with a score less than or equal to 11       b)  with a score greater than 12        | [1]   |
| **3)** The scores for a group of students are recorded in the table below.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Score** | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| **Frequency** | 2 | 1 | 18 | 9 | 20 | 2 | 1 |

Find the probability of selecting a studenta)  with a score less than or equal to 11       b) with a score greater than 10        | [1]   |
| **4)** The test results of 55 students is recorded in the two-way table below. One student is chosen at random.

|  |  |  |
| --- | --- | --- |
|   | **Grade** | **Total** |
| **A** | **B** | **C** |
| **Male** | 3 | 15 | 8 | 26 |
| **Female** | 10 | 12 | 7 | 29 |
| **Total** | 13 | 27 | 15 | 55 |

Find the probability that the student is male 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** | 13 | 3 | 11 | 27 |
| **Female** | 17 | 19 | 9 | 45 |
| **Total** | 30 | 22 | 20 | 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 is male.

|  |  |
| --- | --- |
|   | **Grade** |
| **A** | **B** | **C** |
| **Male** | 8 | 3 | 11 |
| **Female** | 12 | 4 | 20 |

      | [1]   |

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

|  |  |
| --- | --- |
| **1)** a) P(score of 4) = 11/31, b) P(score of 7) = 3/31 | **2)** a) P(less than or equal to 11) =  $\frac{13}{30}$, b) P(greater than 12) =  $\frac{2}{5}$ |
| **3)** a) P(less than or equal to 11) =  $\frac{50}{53}$, b) P(greater than 10) =  $\frac{23}{53}$ | **4)** P(male and got a grade B) =  $\frac{3}{11}$ |
| **5)** P(got a B) =  $\frac{11}{36}$ | **6)** P(is male) =  $\frac{11}{29}$ |