**Simple Probability - tables of data**

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| Name : | Class : | Date : |

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| Mark : | /6 | % |

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| **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 student  a)  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 student  a)  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 student  a)  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**

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| **1)** a) P(score of 4) = 11/31, b) P(score of 7) = 3/31 | **2)** a) P(less than or equal to 11) =  , b) P(greater than 12) = |
| **3)** a) P(less than or equal to 11) =  , b) P(greater than 10) = | **4)** P(male and got a grade B) = |
| **5)** P(got a B) = | **6)** P(is male) = |