**Two way tables**

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

|  |  |  |
| --- | --- | --- |
| Mark : | /9 | % |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1)** The test results of 67 students are recorded in the two-way table below.

|  |  |  |
| --- | --- | --- |
|   | **Grade** | **Total** |
| **A** | **B** | **C** |
| **Male** | 14 | 12 | 9 | 35 |
| **Female** | 19 | 3 | 10 | 32 |
| **Total** | 33 | 15 | 19 | 67 |

a) How many students are female and got a grade C?     b) How many students are male?           | [1]   |
| **2)** 64 people are surveyed on their favourite sports and the results are shown in the two-way table below.

|  |  |  |
| --- | --- | --- |
|   | **Subject** | **Total** |
| **Hockey** | **Cricket** | **Badminton** |
| **Male** | 11 | 9 | 19 | 39 |
| **Female** | 6 | 2 | 17 | 25 |
| **Total** | 17 | 11 | 36 | 64 |

a) How many students are male and like Cricket?     b) How many students are female?     c) What fraction of females like Cricket?           | [1]   |
| **3)** The results of a survey about travel destinations are shown in the two-way table below.

|  |  |  |
| --- | --- | --- |
|   | **Destination** | **Total** |
| **Holland** | **France** | **Spain** | **Germany** |
| **Male** | 27 | 30 | 25 | 21 | 103 |
| **Female** | 20 | 33 | 29 | 32 | 114 |
| **Total** | 47 | 63 | 54 | 53 | 217 |

a) How many people are male and travelled to Spain?     b) How many people are female?     c) What fraction of females travelled to Germany?           | [1]   |
| **4)** The test results of 56 students is recorded in the two-way table below. Complete the table.

|  |  |  |
| --- | --- | --- |
|   | **Grade** | **Total** |
| **A** | **B** | **C** |
| **Male** | 4 |  | 13 | 19 |
| **Female** |  |  | 6 |  |
| **Total** | 23 |  |  | 56 |

 | [1]   |
| **5)** Favourite school subjects are recorded for a group students in the two-way table below. Complete the table.

|  |  |  |
| --- | --- | --- |
|   | **Subjects** | **Total** |
| **Maths** | **Science** | **PE** |
| **Male** |  | 17 | 13 | 44 |
| **Female** | 6 |  | 12 |  |
| **Total** |  | 26 |  |  |

 | [1]   |
| **6)** The method of travel to school is recorded for a group students in the two-way table below. Complete the table.

|  |  |  |
| --- | --- | --- |
|   | **Transport** | **Total** |
| **Car** | **Bus** | **Taxi** | **Walk** |
| **Year 10** |  | 30 |  | 22 | 105 |
| **Year 11** | 27 |  | 29 |  |  |
| **Total** |  | 66 | 61 | 48 |  |

 | [1]   |
| **7)** 51 people went abroad for a holiday.The people surveyed either went to France, Belgium or Finland.19 of the people went to Finland.17 males went to France.12 females went to Finland.23 of the people were female.4 of the 6 people who went to Belgium were male.How many males went to Finland?           | [1]   |
| **8)** 80 students took a Geography test.The students either got a grade A, B or C.38 of the students were female.20 of the 33 students who got a grade B were male.33 of the students got a grade C.3 males got a grade A.How many females got a grade A?           | [1]   |
| **9)** A group of children were surveyed about their favourite flavour of ice-cream.The preferred flavours were strawberry, chocolate, lime and vanilla.9 females liked strawberry while 15 females liked chocolate.21 of the children liked strawberry, 20 liked lime and 16 liked vanilla.6 males liked lime and 13 males liked vanilla out of a total of 35 males.How many children were surveyed altogether?           | [1]   |

**Solutions for the assessment Two way tables**

|  |  |
| --- | --- |
| **1)** a) 10, b) 35 | **2)** a) 9, b) 25, c)  $\frac{2}{25}$ |
| **3)** a) 25, b) 114, c)  $\frac{16}{57}$ | **4)** male grade B = 2female grade A = 19, female grade B = 12, female total = 37Grade B total = 14, Grade C total = 19 |
| **5)** male and Maths = 14female and Science = 9, female total = 27Maths total = 20, PE total = 25, Overall total = 71 | **6)** Year 10 and Car = 21, Year 10 and Taxi = 32Year 11 and Bus = 36, Year 11 and Walk = 26, Year 11 total = 118Car total = 48, Overall total = 223 |
| **7)** 7 | **8)** 11 |
| **9)** 76 |  |