**Two way tables**

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

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1)** The test results of 65 students are recorded in the two-way table below.

|  |  |  |
| --- | --- | --- |
|   | **Grade** | **Total** |
| **A** | **B** | **C** |
| **Male** | 19 | 15 | 6 | 40 |
| **Female** | 14 | 7 | 4 | 25 |
| **Total** | 33 | 22 | 10 | 65 |

a) How many students are male and got a grade C?     b) How many students are female?           | [1]   |
| **2)** 82 people are surveyed on their favourite sports and the results are shown in the two-way table below.

|  |  |  |
| --- | --- | --- |
|   | **Subject** | **Total** |
| **Cricket** | **Football** | **Rugby** |
| **Male** | 16 | 17 | 10 | 43 |
| **Female** | 15 | 5 | 19 | 39 |
| **Total** | 31 | 22 | 29 | 82 |

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

|  |  |  |
| --- | --- | --- |
|   | **Destination** | **Total** |
| **Portugal** | **Spain** | **Germany** | **France** |
| **Male** | 31 | 22 | 20 | 26 | 99 |
| **Female** | 40 | 37 | 25 | 32 | 134 |
| **Total** | 71 | 59 | 45 | 58 | 233 |

a) How many people are male and travelled to Germany?     b) How many people are female?     c) What fraction of females travelled to France?           | [1]   |
| **4)** The test results of 92 students is recorded in the two-way table below. Complete the table.

|  |  |  |
| --- | --- | --- |
|   | **Grade** | **Total** |
| **A** | **B** | **C** |
| **Male** | 16 |  | 13 | 37 |
| **Female** |  |  | 18 |  |
| **Total** | 33 |  |  | 92 |

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

|  |  |  |
| --- | --- | --- |
|   | **Subjects** | **Total** |
| **Science** | **English** | **Maths** |
| **Male** |  | 8 | 5 | 32 |
| **Female** | 20 |  | 12 |  |
| **Total** |  | 22 |  |  |

 | [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** |
| **Bus** | **Car** | **Bicycle** | **Walk** |
| **Year 9** |  | 36 |  | 29 | 123 |
| **Year 10** | 37 |  | 32 |  |  |
| **Total** |  | 75 | 63 | 54 |  |

 | [1]   |
| **7)** 66 people went abroad for a holiday.The people surveyed either went to Italy, Switzerland or Spain.25 of the people went to Spain.10 males went to Italy.6 females went to Spain.25 of the people were female.12 of the 27 people who went to Switzerland were male.How many males were there in the survey?           | [1]   |
| **8)** 48 students took a Geography test.The students either got a grade A, B or C.32 of the students were female.11 of the 28 students who got a grade B were male.9 of the students got a grade C.3 males got a grade A.How many females got a grade C?           | [1]   |
| **9)** A group of children were surveyed about their favourite flavour of ice-cream.The preferred flavours were vanilla, chocolate, coffee and mint.11 females liked vanilla while 15 females liked chocolate.17 of the children liked vanilla, 5 liked coffee and 21 liked mint.2 males liked coffee and 13 males liked mint out of a total of 26 males.How many children were surveyed altogether?           | [1]   |

**Solutions for the assessment Two way tables**

|  |  |
| --- | --- |
| **1)** a) 6, b) 25 | **2)** a) 5, b) 43, c)  $\frac{10}{43}$ |
| **3)** a) 20, b) 134, c)  $\frac{16}{67}$ | **4)** male grade B = 8female grade A = 17, female grade B = 20, female total = 55Grade B total = 28, Grade C total = 31 |
| **5)** male and Science = 19female and English = 14, female total = 46Science total = 39, Maths total = 17, Overall total = 78 | **6)** Year 9 and Bus = 27, Year 9 and Bicycle = 31Year 10 and Car = 39, Year 10 and Walk = 25, Year 10 total = 133Bus total = 64, Overall total = 256 |
| **7)** 41 | **8)** 7 |
| **9)** 63 |  |