**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** | 9 | 15 | 6 | 30 |
| **Female** | 20 | 4 | 11 | 35 |
| **Total** | 29 | 19 | 17 | 65 |

a) How many students are female and got a grade C?     b) How many students are male?           | [1]   |
| **2)** 78 people are surveyed on their favourite sports and the results are shown in the two-way table below.

|  |  |  |
| --- | --- | --- |
|   | **Subject** | **Total** |
| **Badminton** | **Cricket** | **Football** |
| **Male** | 18 | 13 | 9 | 40 |
| **Female** | 7 | 15 | 16 | 38 |
| **Total** | 25 | 28 | 25 | 78 |

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

|  |  |  |
| --- | --- | --- |
|   | **Destination** | **Total** |
| **Spain** | **Holland** | **Germany** | **Portugal** |
| **Male** | 36 | 22 | 27 | 23 | 108 |
| **Female** | 30 | 20 | 26 | 28 | 104 |
| **Total** | 66 | 42 | 53 | 51 | 212 |

a) How many people are female and travelled to Germany?     b) How many people are male?     c) What fraction of males travelled to Germany?           | [1]   |
| **4)** The test results of 63 students is recorded in the two-way table below. Complete the table.

|  |  |  |
| --- | --- | --- |
|   | **Grade** | **Total** |
| **A** | **B** | **C** |
| **Male** | 5 |  | 18 | 27 |
| **Female** |  |  | 17 |  |
| **Total** | 15 |  |  | 63 |

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

|  |  |  |
| --- | --- | --- |
|   | **Subjects** | **Total** |
| **English** | **ICT** | **Science** |
| **Male** |  | 2 | 17 | 25 |
| **Female** | 5 |  | 13 |  |
| **Total** |  | 21 |  |  |

 | [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** | **Taxi** |
| **Year 8** |  | 27 |  | 20 | 112 |
| **Year 9** | 28 |  | 22 |  |  |
| **Total** |  | 67 | 52 | 46 |  |

 | [1]   |
| **7)** 54 people went abroad for a holiday.The people surveyed either went to Denmark, Norway or Portugal.29 of the people went to Portugal.4 males went to Denmark.17 females went to Portugal.35 of the people were female.3 of the 10 people who went to Norway were male.How many males were there in the survey?           | [1]   |
| **8)** 65 students took a Geography test.The students either got a grade A, B or C.41 of the students were female.4 of the 23 students who got a grade B were male.27 of the students got a grade C.9 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 mint, chocolate, coffee and vanilla.3 females liked mint while 13 females liked chocolate.7 of the children liked mint, 14 liked coffee and 17 liked vanilla.12 males liked coffee and 9 males liked vanilla out of a total of 40 males.How many children were surveyed altogether?           | [1]   |

**Solutions for the assessment Two way tables**

|  |  |
| --- | --- |
| **1)** a) 11, b) 30 | **2)** a) 7, b) 40, c)  $\frac{9}{40}$ |
| **3)** a) 26, b) 108, c)  $\frac{1}{4}$ | **4)** male grade B = 4female grade A = 10, female grade B = 9, female total = 36Grade B total = 13, Grade C total = 35 |
| **5)** male and English = 6female and ICT = 19, female total = 37English total = 11, Science total = 30, Overall total = 62 | **6)** Year 8 and Bus = 35, Year 8 and Bicycle = 30Year 9 and Car = 40, Year 9 and Taxi = 26, Year 9 total = 116Bus total = 63, Overall total = 228 |
| **7)** 19 | **8)** 16 |
| **9)** 66 |  |