**Two way tables**

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| **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**

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