**Two way tables**

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| Name : | Class : | Date : |

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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** | 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**

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