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| **Stratified Sampling – Red and Amber**  The rule for stratified sampling is:  Stratum is the group you are sampling from. (For example, female) | | |
| **Question 1**  The table shows the number of girls in four different schools.  Jenny wants to use a stratified sample of exactly 80 girls by school.  Complete the calculations shown to find how many girls from each school Jenny should use. | School A:  School B:  School C:  School D: | |
| **Question 2**  The table shows the number of boys in four different schools.  Adam wants to use a stratified sample of exactly 40 boys.  Complete the calculations to find how many boys Adam should use. | School A:  School B:  School C:  School D: | |
| **Question 3**  The table shows the number of competitors in a competition by age group.  The organisers want to conduct a survey and use a stratified sample of 50 people.  Calculate how many people from each age group they need to sample. |  | |
| **Question 4**  This table shows the gender of students studying three languages at college.   1. Calculate the total number of students at the college studying languages.   Jamie wants to conduct a survey at the college. He wants to take a sample of 50 students stratified by gender and by language studied.   1. Complete the calculations to find the size of each sample group. | Male studying German:  Male studying French:  Male studying Spanish:  Female studying German:  Female studying French:  Female studying Spanish: | |
| **Question 5**  A golf club is conducting a survey of its members.  They want to take a sample of 90 stratified by both age and by gender.  Calculate the size of each sample group.  (Hint: There will be 8 groups) |  | |
| **Question 6**  The table shows the number of students studying a two year college course.  Laura wants to sample 70 students, stratified by year group and gender.  Calculate the size of each sample group. | Hint: There are 4 groups that will be sampled. | |
| **Stratified Sampling – Red and Amber**  The rule for stratified sampling is:  Stratum is the group you are sampling from. (For example, female) | | |
| **Question 1**  School A – 80 x (126/461) = 22  School B – 80 x (82/461) = 14  School C – 80 x (201/461) = 35  School D – 80 x (52/461) = 9 | |  |
| **Question 2**  School A – 40 x (32/132) = 10  School B – 40 x (43/132) = 13  School C – 40 x (38/132) = 11 (Actually rounds to 12, but should be rounded down to keep the sample size correct)  School D – 40 x (19/132) = 6 | |  |
| **Question 3**  16 – 18 = 50 x (120/570) = 10  (Actually rounds to 11, but should be rounded down to keep the sample size correct)  19 – 24 = 50 x (250/570) = 22  25+ = 50 x (200/570) = 18 | |  |
| **Question 4**  Male German = 50 x (45/258) = 9  Male French = 50 x(52/258) = 10  Male Spanish = 50 x (26/258) = 5  Female German = 50 x (25/258) = 5  Female French = 50 x (48/258) = 9  Female Spanish = 50 x (62/258) = 12 | |  |
| **Question 5**  Male under 18 = 90 x (29/454) = 6  Male 18 to 30 = 90 x (82/454) = 16    Male 31 to 50 = 90 x (147/454) = 29  Male over 50 = 90 x (91/454) = 18  Female under 18 = 90 x (10/454) = 2  Female 18 to 30 = 90 x (21/454) = 4  Female 31 to 50 = 90 x (45/454) = 9  Female over 50 = 90 x (29/454) = 6 | |  |
| **Question 6**  Male first year = 70 x (399/1451) = 19  Male second year = 70 x (252/1451) = 12  Female first year = 70 x (602/1451) = 29  Female second year = 70 x (198/1451) = 10 | |  |