

Tyler uses a stratified sample to survey 25% of the members of his swimming club. He uses their sex as a category and selects a random group of female and male swimmers. There are 88 female swimmers and 112 male swimmers in his club.

- How many swimmers are in the entire population?
- How many female swimmers are in the sample?
- How many male swimmers are in the sample?

Osman uses a stratified sample to survey 7.5% of his chat room friends. He uses marital status as a category and selects a random group of married and unmarried friends. There are 200 married and 240 unmarried friends in his chat room.

- How many friends are in the entire population?
- How many married friends are in the sample?
- How many unmarried friends are in the sample?

Taylia uses a stratified sample to survey 20% of the senior students from her school. There are 205 Year 11 students and 180 Year 12 students. How many students should Taylia choose from Year 12?

Ming uses a stratified sample to survey  $12\frac{1}{2}\%$  of the junior students from his school. There are 88 Year 7, 120 Year 8, 104 Year 9 and 128 Year 10 students.

- How many students are in the entire population?
- How many students should Ming choose in following years?
  - Year 7
  - Year 8
  - Year 9
  - Year 10