1 There are 25 students in a class. 17 study French, 12 study Malay, and 10 study both languages.
   Show this information on a Venn diagram.
   Find the number of students who:
   a study French only   b study Malay or French or both
   c study neither subject   d do not study both subjects.

2 In a class 20 people take Geography, 17 take History, 10 take both subjects, and 1 person takes neither subject.
   Draw a Venn diagram to show this information.
   Find the number of students who:
   a are in the class   b do not study History
   c study Geography but not History
   d study Geography or History but not both.

3 Of the 32 students in a class, 18 play the violin, 16 play the piano, and 7 play neither. Find the number of students who:
   a play the violin but not the piano   b do not play the violin
   c play the piano but not the violin
   d play the piano or the violin, but not both.

4 There are 30 students in a mathematics class. 20 of the students have studied probability, 14 have studied set theory, and two people have studied neither.
   Find the number of students who:
   a have studied both topics
   b have studied exactly one of these subjects
   c have studied set theory, but not probability.

5 There are 25 girls in a PE group. 13 have taken aerobics before and 17 have taken gymnastics. One girl has done neither before.
   Find the number of girls who:
   a have taken both activities
   b have taken gymnastics but not aerobics
   c have taken at least one of these activities.