

Using Venn Diagrams

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A college teaches courses in mathematics, computing and statistics, and students can choose a range of courses from these three subject areas.

Currently 600 students are enrolled of whom 300 study mathematics courses, 120 study statistics and 380 study computing courses.

Let the subject areas be represented by the letters M for mathematics, C for computing and S for statistics.

Draw a labelled Venn diagram showing the areas M, C, and S in such a way as to represent the students studying at the college.

On your diagram show the number of students studying in each region of the Venn diagram.

- ▶ **40 students study courses from all three subject areas.**
- ▶ **200 mathematics students study computing subjects as well.**
- ▶ **60 computing students also study statistics subjects.**
- ▶ **70 statistics students also study mathematics subjects.**

Questions:

- ▶ **How many students study none of these courses at all?**
- ▶ **How many students study mathematics but not computing or statistics?**
- ▶ **How many students study courses from precisely two of these subject areas?**

End of Presentation

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