Question of the day Day 8

In a group of 100 students

- 59 study History (H)
- 62 study Geography (G)
- 20 do not study either subject.

$$\left]= \begin{array}{r} 59 \\ 62 \\ + \text{ History \& Geography} \\ \hline 121 \end{array}\right.$$
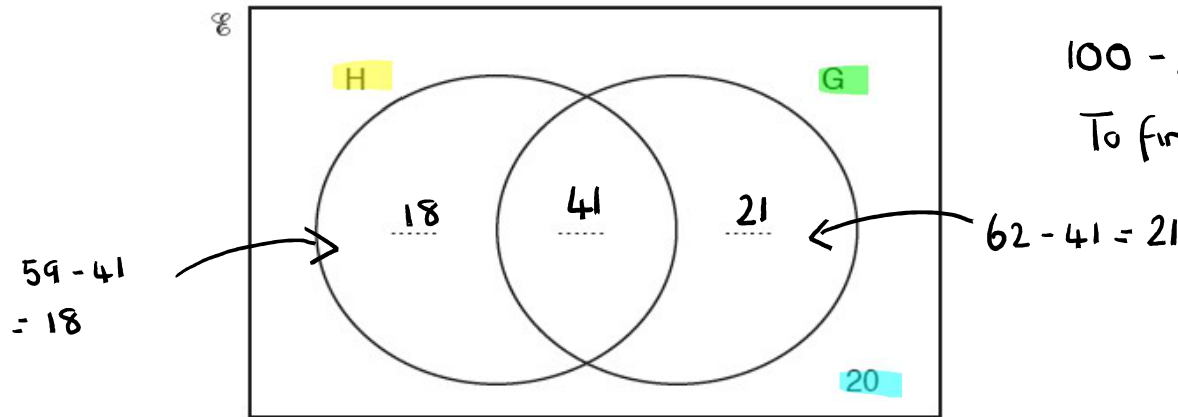
(a) Complete the Venn diagram.

The 4 sections of the venn diagram need to add to 100.

Start by subtracting the number that do not study either.

$100 - 20 = 80$ (the amount in the Venn diagram)

To find the centre $121 - 80 = 41$

$59 - 41 = 18$

$18 \quad 41 \quad 21$

$62 - 41 = 21$

20

[3]

(b) One of the 100 students is selected at random.

Find the probability that this student studies exactly one of the two subjects.

P(history only) or P(Geography only)

$= 18 + 21$

$\dfrac{39}{100}$

(b) .... [2]

Foundation