10 $\mathscr{E} = \{n: n \text{ is an integer and } 1 \leqslant n \leqslant 8\}$
$A = \{\text{factors of } 12\}$
$B = \{\text{odd numbers}\}$

Find

(a) $A \cap B$

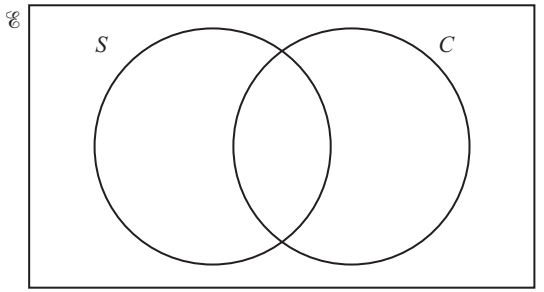
$A \cap B = \{.....\}$ [1]

(b) $\text{n}(A' \cup B)$.

..... [1]

12 A fitness club has 100 members.

60 swim (S).
70 cycle (C).
25 do not swim or cycle.



(a) Complete the Venn diagram.

[3]

(b) One member of the fitness club is chosen at random.

For this member, find

(i) $\text{P}(C)$

..... [1]

(ii) $\text{P}(S \cap C)$

..... [1]

(iii) $\text{P}(S \cup C')$.

..... [1]