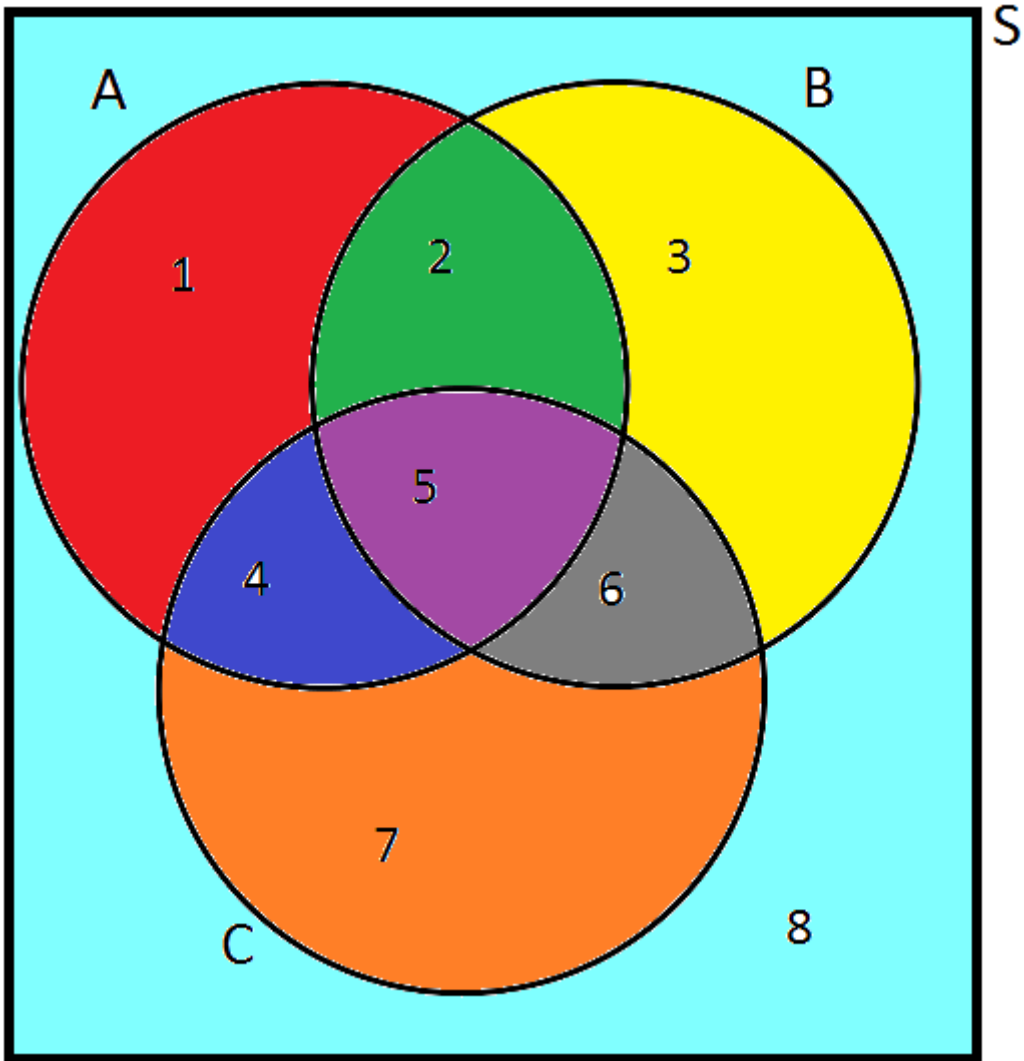A three set Venn diagram

1 = red = $A \cap (B \cup C)'$ 2 = green = $A \cap B \cap C'$

3 = yellow = $B \cap (A \cup C)'$ 4 = blue = $A \cap C \cap B'$
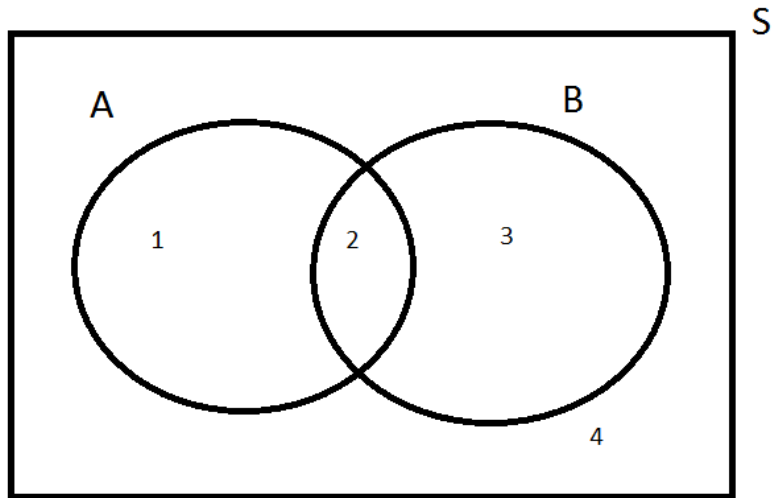
5 = purple = $A \cap B \cap C$ 6 = grey = $C \cap B \cap A'$

7 = burnt orange = C but not A or B $C \cap (B \cup A)'$ 8 = teal = $(A \cup B \cup C)'$

A two set Venn diagram

$1 = A \cap B'$ $2 = A \cap B$ $3 = A' \cap B$ $4 = (A \cup B)'$

Venn diagrams are a great help for visual students. If necessary, print this off and write in words what each region means. Take it slow and think about what the prime (') means. If A is the set children with an illness and B is the set of children living in the country; then A' represents children that are not ill and B' represents children not living in the country.