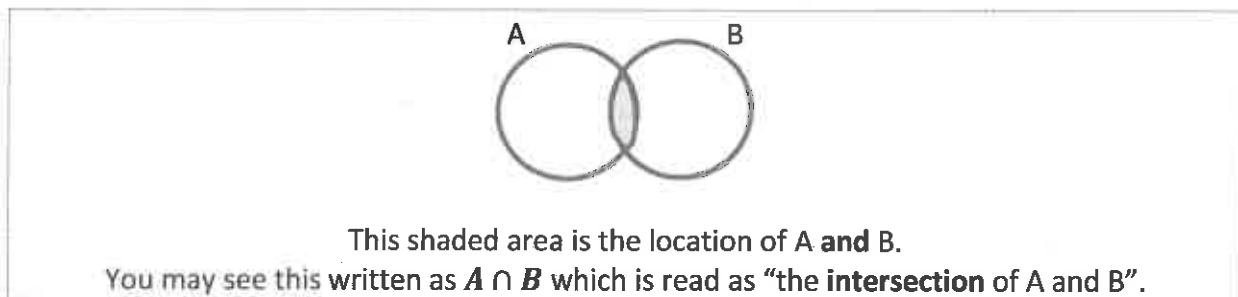


## Venn Diagram Locations: "And", "Or", "Only"

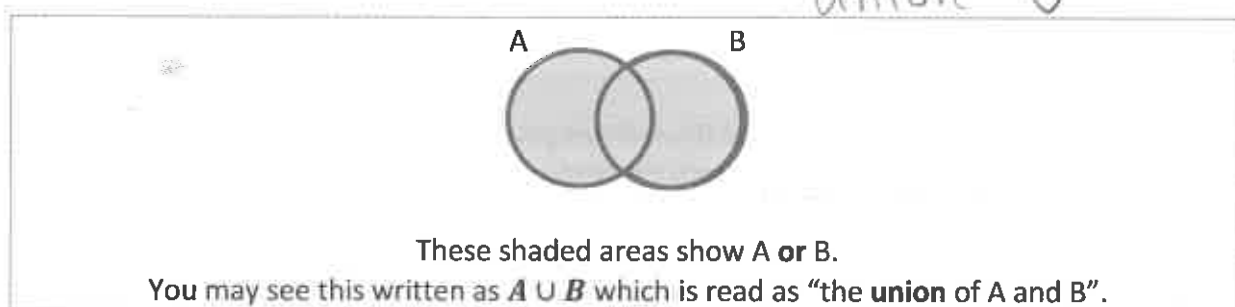
If an element is in set A **and** in Set B, the element must be part of both sets. The word "**and**" signals us that the element is found in the overlap or intersection area of a Venn diagram.

intersection  $\cap$



If we say an element is in Set A **or** Set B, this means that the element could be in either set or it could be in both sets.

Union  $\cup$



If we say an element is **only** in set A, this means that it is not in any other set.

without

