

Activity six

1. Given that $n(A) = 20$, $n(B) = 30$, $n(A \cup B) = 40$.

Find

- i) $A \cap B$
 - ii) $n(A)$ only.
 - iii) $n(B)$ only.
2. Given that $n(A - B) = 10$, $n(B - A) = 15$ and $n(A \cap B) = 12$.
Draw a venn diagram for the above information above.
Find $n(A \cup B)$
3. In a class of 30, 18 students like Maths (M), 21 students like Literature (L), M students like both Maths and Literature.
- a) Draw a venn diagram to represent the above information.
 - b) Find the value of M.
 - c) What is the probability of choosing a pupil who likes Literature only?
4. In a primary seven class of 50 pupils, 27 like Maths (M), 22 like Science (s), M like Math and Science.
- a) Draw and complete the venn diagram using the above information.
 - b) Find the probability of selecting a pupil who likes only one subject.
5. There are 60 pupils in a class. 41 like English (E), 30 like Science (S) but 4 don't like any of the two subjects.
- a) Show this information on a venn diagram.
 - b) How many pupils like both English and Science?
 - c) How many pupils like English but not Science?