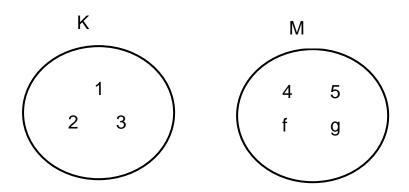
Activity nine

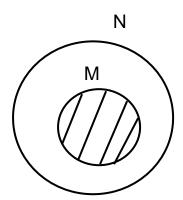
- 1. Set $P = \{a, e, i, o, u\}$
 - a) Name Set P.
 - b) Find ∩ (P).
- 2. Set K ={a, b, c, d} and Set P ={1, 2, 3, 4}. What is the relationship between set K and set P?

3.



Describe the relationship between set K and set M?

4.

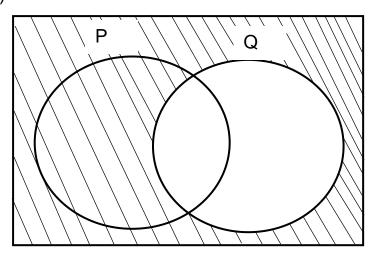


Describe the shaded part.

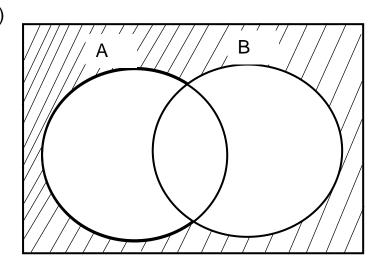
- 5. Draw a venn diagram to show that all boys (B) are males (M).
- 6. Briefly explain the following terms as used in set concept.
 - i) A set
 - ii) Disjoint set
 - iii) Subset
 - iv) Proper subset
 - v) Empty set
 - vi) Equivalent set.
- 7. Given that set K= {2, 3, 5, 7, 11, 13, 17, 19}
 - a) Describe the members of set P.

- b) What is \cap (P)?
- 8. Describe the shaded part

a)



b)

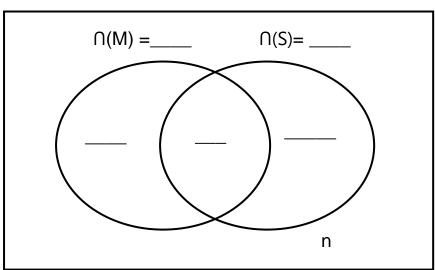


- 9. List the subset for each of the following sets.
 - a) $P = \{\emptyset\}$
 - b) $K = \{a, b\}$
 - c) $P = \{z, y, k\}$
 - d) M = {Moses, Ali, Ruth, Abbey}

10.

- a) Given that set A has 32 subsets, find the number of subsets in set A.
- b) Set $P = \{1, 2, 3\}$, how many proper subsets are in set P?

- c) If the number of proper subsets in N is 127, how many elements are in set N?
- d) If set $P = \{\emptyset\}$, how many proper subsets are in set P?
- 11. Given that set $L = \{K, I, b, o, n, e, t, a\}, M = \{d, a, n, I, e, j\}$
 - a) Draw and represent the above information on venn diagram.
 - b) Find the number of subsets in L \cap M.
- 12. Given that \cap (A) =22, \cap (B) =27, \cap (A \cap B) =12 Find \cap (A U B).
- 13. The venn diagram represents a class of 70 pupils. Given that 44 pupils like Physics (P), 36 pupils like Geography (G) and 17 pupils like both subjects and n do not like any.



- b) Find the value of n.
- c) How many like one subject?
- 14. In a class of 47 boys, 25 like Meat (M) only, P like Fish (F) 12 like both Meat and Fish while 3 boys like neither of the two.
 - a) Draw a venn diagram and represent the above information.
 - b) Find the value of P.
 - c) Find the probability of picking a boy who like one type of food.
- 15. In a class of 144 students (4y + 10) play Football (F) only, 65 play Tennis (T), y play both games while 5 play neither of the two games.
 - a) Draw a venn diagram and represent the above information.
 - b) Find the value of y.
 - c) Find the probability of picking a pupil who plays football.

- 16. In a group of 40 people. All of them play football (F). 9 play football only 15 play Tennis (T) and football, 25 go for swimming (S) and play football. Some enjoy all the three types of games.
 - a) Draw a venn diagram to represent the above information.
 - b) How many people play all the three games?
 - c) How many people play only two games?

END