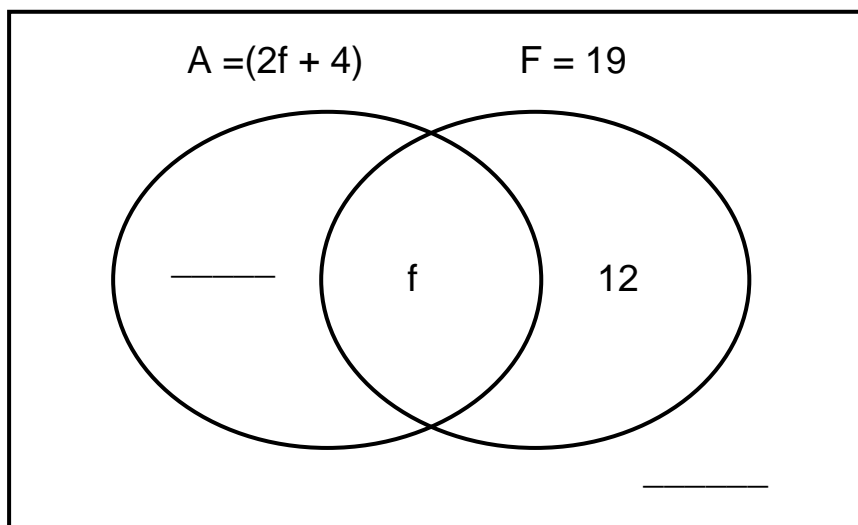


Activity seven

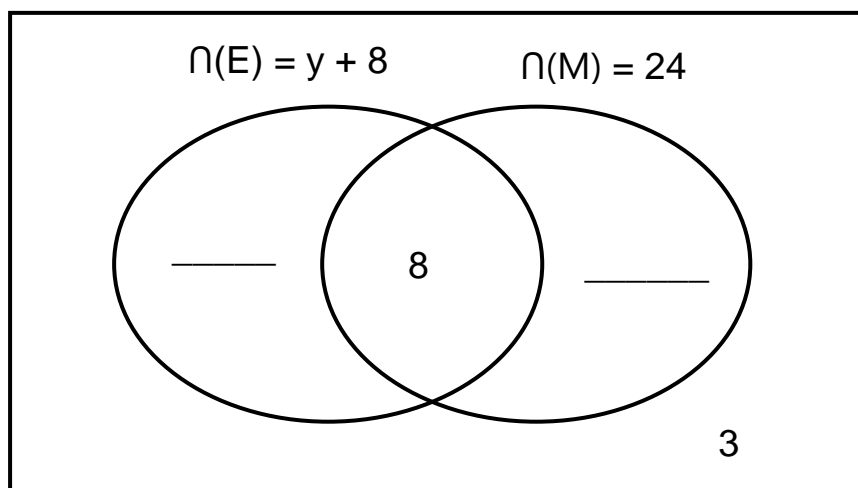
- In a class of 40 pupils, 25 enjoy mathematics (M) , 19 enjoy English E, n pupils enjoy both and 2 pupils do not enjoy any of those subjects.
 - Draw a venn diagram to represent the above information.
 - Find those who enjoy both subjects.
 - Find the probability of selecting a pupil who likes only one subjects.
- In a class, $(2f + 4)$ pupils eat Meat (M) and 19 eat Fish (F), f pupils eat both Meat and fish while others eat neither of the two.
 - Complete the venn diagram below using the above information.

$$\mathcal{E} = 40$$



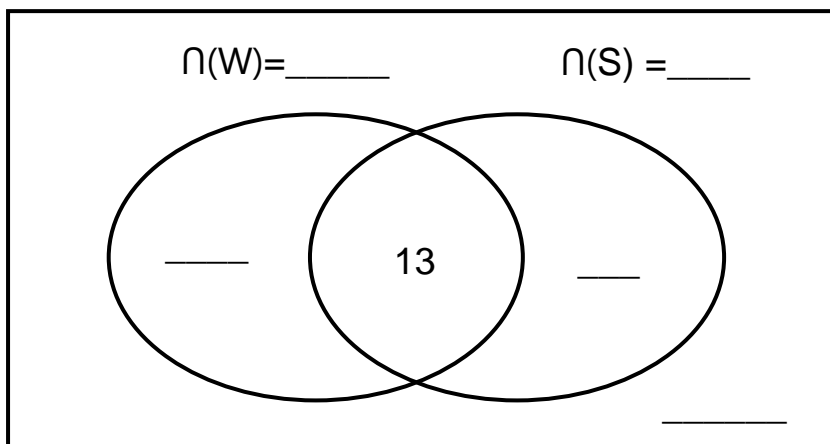
- Workout the value of f.
- In Excel Junior School, 60 candidates registered for P. L. E. 24 of them like Math (M), $(y+8)$ like English (E), 8 like both subjects while 3 like neither of the two subjects.
 - Use the above information to complete the venn diagram.

$$\mathcal{E} = 60$$



- b) Find the value of y .
- c) If a candidate is picked at random, work out the probability that the candidate picked likes Maths only.
4. In a teaching staff of 48 teachers, h play football ONLY, 23 play volleyball (V), 8 play both games while 5 teachers do not play any of the two games.
- a) Draw a venn diagram to show the above information.
- b) Find the value of y .
- c) How many teachers play volley ball?
5. In a class of 50 pupils, 30 like Matooke (M), h like posho (P), 10 like both Matooke and posho while 5 pupils like neither posho nor Matooke.
- a) Draw a venn diagram to represent the above information.
- b) Find the value of h .
- c) How many pupils like one type of food.
6. In a village, 23 farmers grow Maize (M), $(t + 3)$ farmers grow only cassava (C), 5 farmers grow both crops while 3 farmers grow neither of the two crops.
- a) Draw a venn diagram to represent the above information.
- b) Given that a 9 farmers grow cassava (C), find the value of t .
7. In a class, 24 pupils like soda (S), $K + 6$ like water (W) only, $(K - 5)$ pupils like other drinks and 13 pupils like both soda and water.
- a) Represent the above information on the venn diagram.

$$\mathcal{E} = 40$$



- b) How many pupils like water if 27 pupils like only one drink?
- c) Find the probability of picking a pupil who doesn't like soda to sweep the classroom.