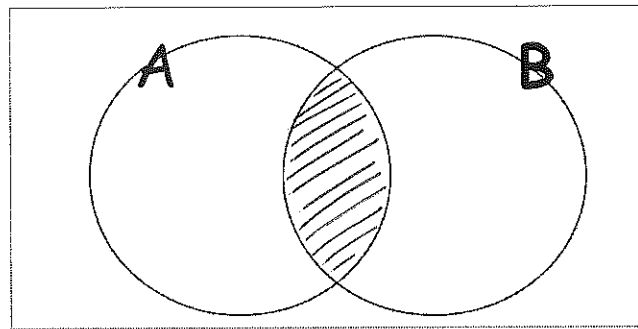


1. Given that $P(A) = 0.9$ find: $P(A')$

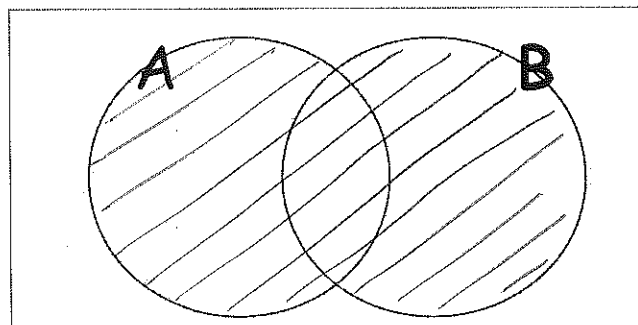
.....0.1..... (1)

2. Shade the region that represents: $P(A \cap B)$



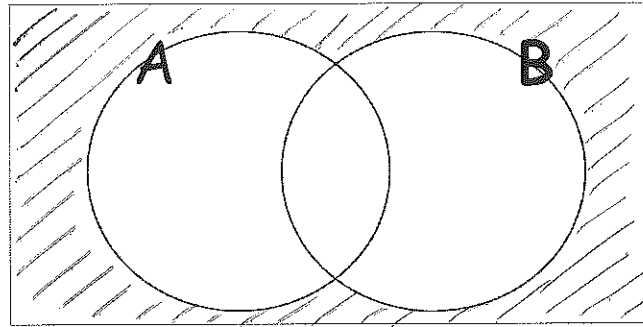
(1)

3. Shade the region that represents: $P(A \cup B)$



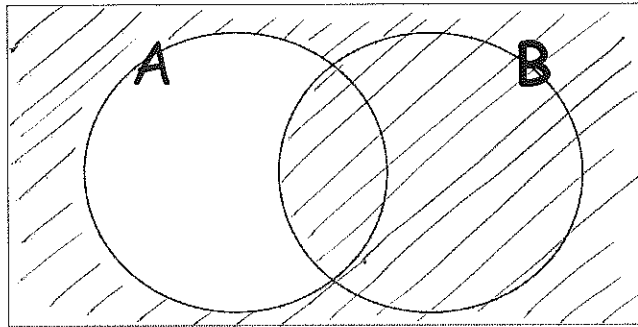
(1)

4. Shade the region that represents: $P(A' \cap B')$



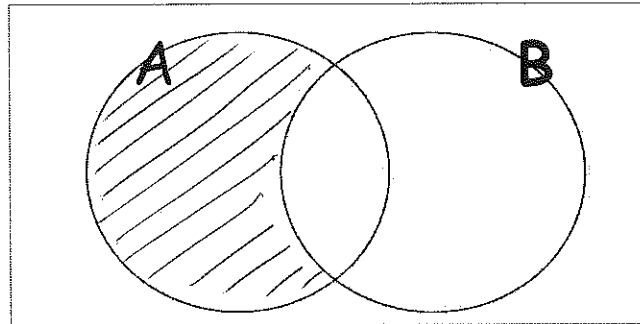
(1)

5. Shade the region that represents: $P(A' \cup B)$



(1)

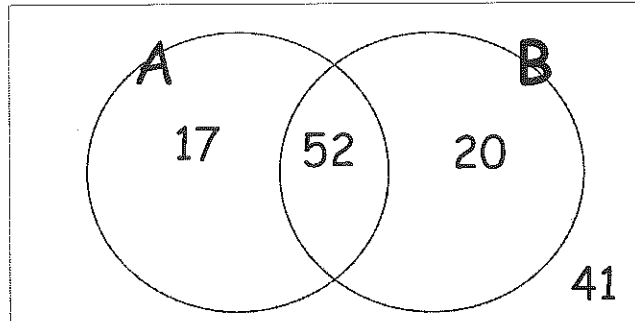
6. Shade the region that represents: $P(A \cap B')$



(1)

7. All members of a club were asked if they eat apples (A) and if they eat bananas (B)

The information was represented on a Venn Diagram



a) How many people are in the club?

.....130..... (1)

A member of the club is selected at random

b) What is the probability they eat both apples and bananas?

..... $\frac{52}{130}$ (1)

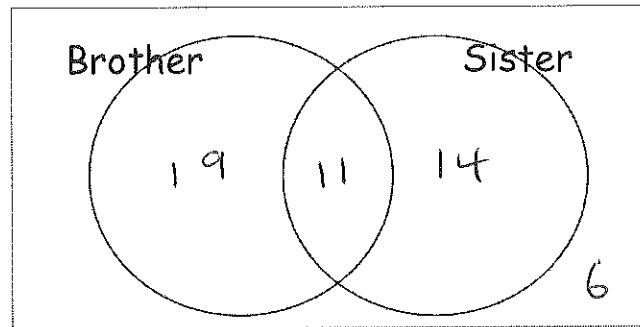
8. Out of 50 people surveyed:

30 have a brother

25 have a sister

6 have neither a brother or a sister

a) Use this information to complete the Venn Diagram



(3)

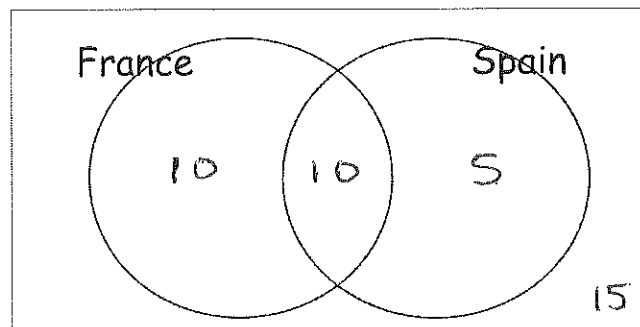
9. 40 students were surveyed:

20 have visited France

15 have visited Spain

10 have visited both France and Spain

a) Use this information to complete the Venn Diagram



(3)



10. Sami asked 50 people which drinks they liked from tea, coffee and milk.

All 50 people like at least one of the drinks

19 people like all three drinks.

16 people like tea and coffee but do not like milk.

21 people like coffee and milk.

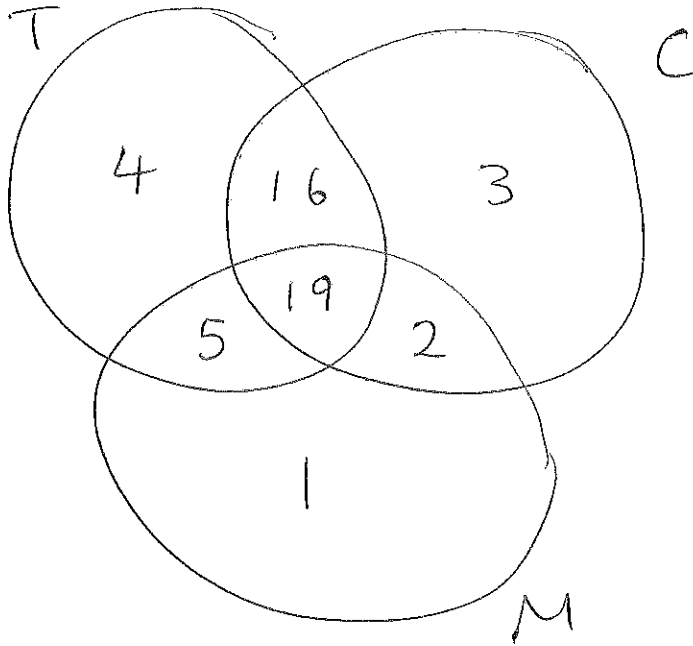
24 people like tea and milk.

40 people like coffee.

1 person likes only milk.

Sami selects at random one of the 50 people.

a) Work out the probability that this person likes tea.



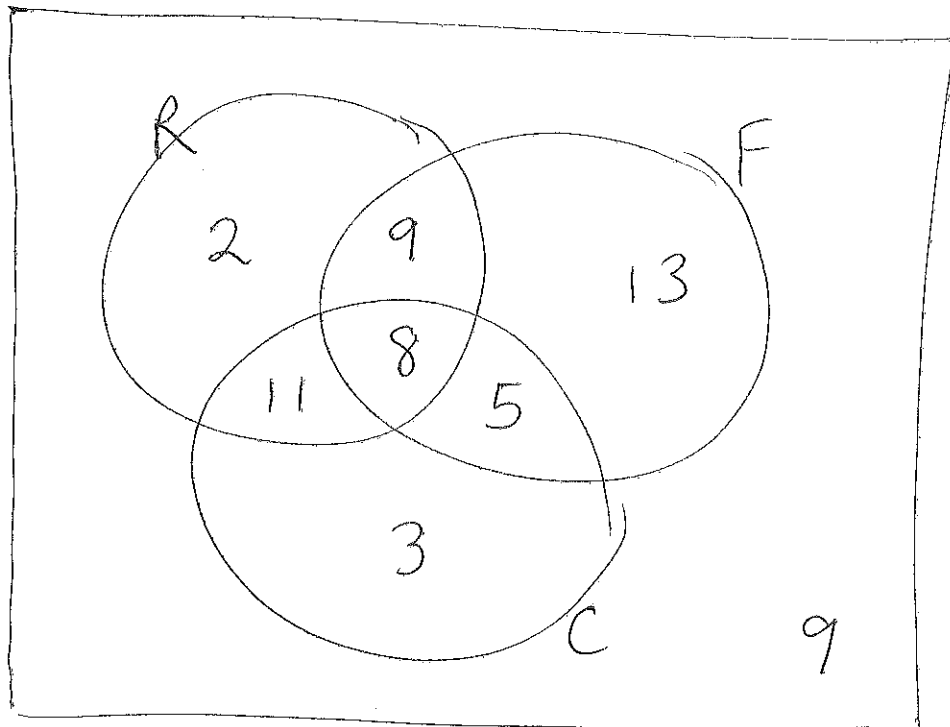
$$\frac{44}{50} \dots \dots \dots (4)$$



11. Sami asked 60 people which sports they liked from rugby, football and cricket.

- 8 people like all three sports.
- 17 people like rugby and football.
- 13 people like football and cricket.
- 19 people like rugby and cricket.
- 35 people like football.
- 27 people like cricket
- 30 people like rugby.

a) How many people liked neither rugby or football or cricket?



.....9..... (4)