TWO WAY TABLES and VENN DIAGRAMS
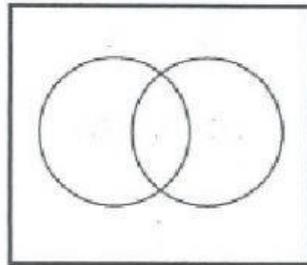
Now we are going from a two way table to a Venn Diagram

|	Like Coffee	Dislike Coffee	TOTAL
Like Tea	20	10	30
Dislike Tea	15	5	20
TOTAL	35	15	50

(a) Place these values on the Venn Diagram below

1. What is the probability that a person does not tea or coffee?
2. What is the probability that a person likes tea?
3. What is the probability that a person likes tea or coffee or both?
4. What is the probability that a person likes tea or coffee but not both?

|	Like Bananas	Dislike Bananas	TOTAL
Like Apples	30	15	45
Dislike Apples	10		30
TOTAL		35	

(b) Fill in the missing values above and then place these in the Venn Diagram below
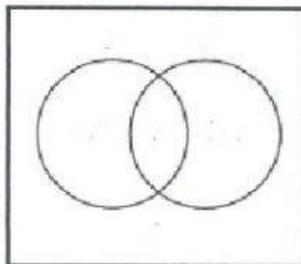
5. What is the probability that a person likes both apples and bananas?
6. What is the probability that a person dislikes both apples and bananas?
7. What is the probability that a person likes apples only?
8. What is the probability that a person likes bananas?
9. What is the probability that a person likes apples or bananas or both?

	Like Maths	Dislike Maths	TOTAL
Like English		15	61
Dislike English	5		39
TOTAL	51		

(c) Fill in the missing values above and then place these in the Venn Diagram below
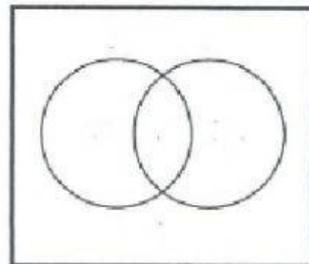
10. How many students were surveyed?
11. What is the probability that a student likes Maths?
12. What is the probability that a student likes Maths only?
13. What is the probability that a student dislikes Maths?
14. What is the probability that a student likes Maths and English?
15. What is the probability that a student likes Maths or English but not both?
16. What is the probability that a student likes English?
17. What is the probability that a student dislikes Maths and dislikes English?