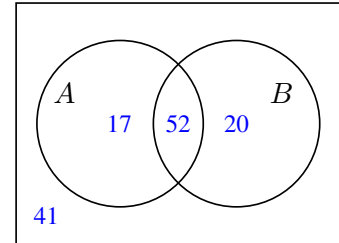


Venn Diagrams



i. 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.

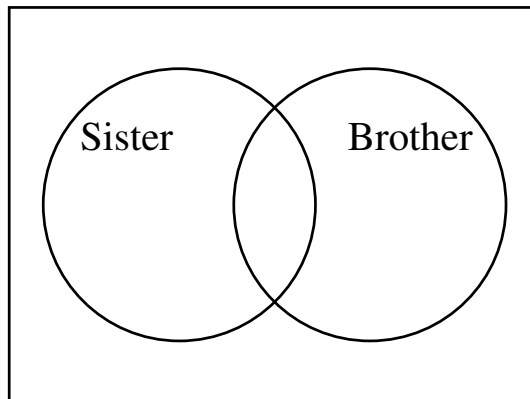
- How many people are in the club?
A member of the club is selected at random.
- What is the probability they eat both apples and bananas?
- What is the probability they eat neither apples or bananas?



ii. Daniel conducted a survey at school. Out of the 50 people he surveyed:

- 30 have a brother
- 25 have a sister
- 6 have neither a brother or a sister

Use this information to complete the Venn Diagram.



iii. Tomi asked 50 people which drinks they liked from tea, coffee and squash.

- 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 squash.
- 21 people like coffee and squash.
- 24 people like tea and squash.
- 40 people like coffee.
- 1 person likes only squash.
- Work out the probability that this person likes squash.
- Which of the three drinks is the most popular?