

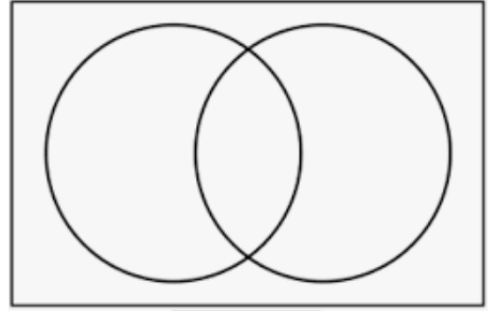
Venn Diagram Questions

1. A group of 50 students are asked what language they study
24 study French
30 study Spanish
12 study both French and Spanish

Draw a Venn Diagram to represent this information

If a student is picked at random. What is the probability that they:

- (a) Study Spanish
- (b) Study French and Spanish
- (c) Study neither French nor Spanish

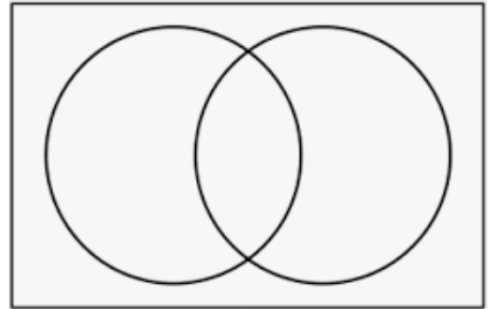


2. 100 people are asked what music they like.
58 like pop
40 like R&B
32 like both pop and R&B

Draw a Venn Diagram to represent this information

A person is picked at random. What is the probability that they:

- (a) Like pop
- (b) Like R&B but not pop
- (c) Like neither R&B nor pop

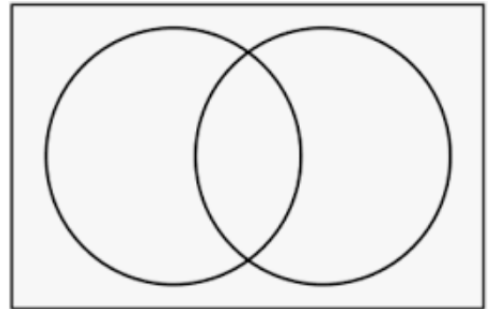


3. 80 children are asked what they like to play on Xbox
45 play Minecraft
30 play Roblox
20 play Minecraft and Roblox

Draw a Venn Diagram to represent this information

A child is picked at random. What is the probability that they:

- (a) Like Roblox
- (b) Like Minecraft but not Roblox
- (c) Like both Minecraft and Roblox

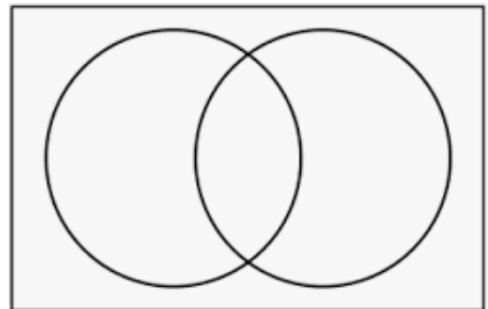


4. A shop surveys 60 customers on the type of cheese they like.
35 like Cheddar
20 like Brie
11 like both Cheddar and Brie

Draw a Venn Diagram representing this information

A customer is picked at random. What is the probability that they like:

- (a) Cheddar
- (b) Brie but not Cheddar
- (c) Neither Brie nor Cheddar



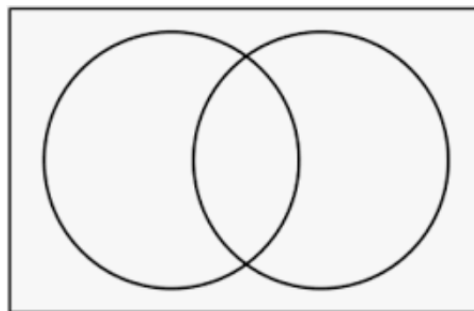
Venn Diagram Questions

5. A group of 15 musicians are asked what instrument they play
9 play piano
6 play guitar
3 play both piano and guitar

Draw a Venn Diagram to represent this information

If a musician is picked at random. What is the probability that they:

- (a) play piano
- (b) play guitar but not piano
- (c) play neither piano or guitar

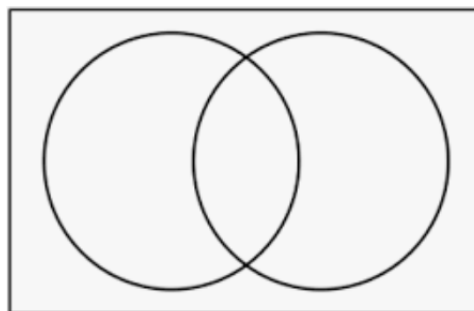


6. 100 people are asked how they have their coffee:
83 have milk
72 have sugar
62 have both milk and sugar

Draw a Venn Diagram to represent this information

A person is picked at random. What is the probability that they:

- (a) have milk but not sugar
- (b) have sugar but not milk
- (c) have neither milk nor sugar

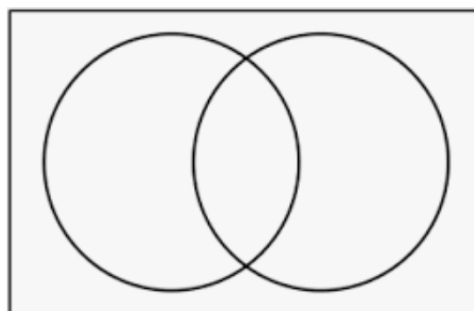


7. 70 people are asked what TV program they like
47 like Coronation Street
20 like Eastenders
7 like both Coronation Street and Eastenders

Draw a Venn Diagram to represent this information

A person is picked at random. What is the probability that they:

- (a) Like Eastenders but not Coronation Street
- (b) Like both Coronation Street and Eastenders
- (c) Like neither Coronation Street nor Eastenders

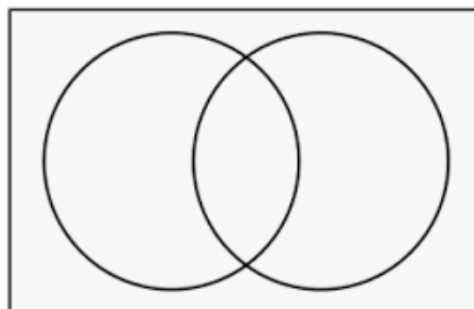


8. A shop surveys 40 customers on the type of mint they like.
20 like spearmint
15 like peppermint
8 like both spearmint and peppermint

Draw a Venn Diagram representing this information

A customer is picked at random. What is the probability that they like:

- (a) Spearmint
- (b) Peppermint but not spearmint
- (c) Neither spearmint nor peppermint



9. 70 people are asked what they like to drink

40 like fizzy

20 like water

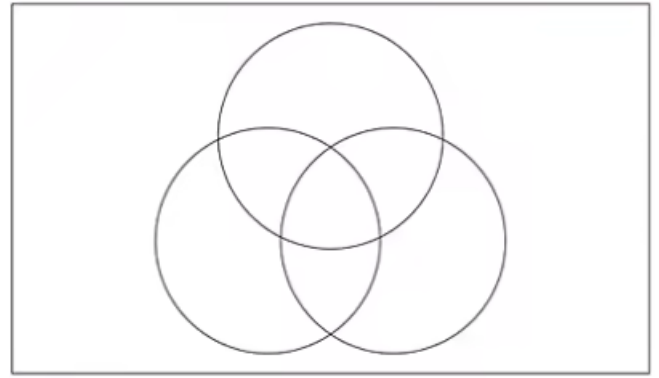
30 like juice

5 like fizzy, water and juice

10 like water and juice

6 like fizzy and water

11 like juice and fizzy



Draw a Venn Diagram to represent this information

A person is picked at random and asked what they like to drink. What is the probability that they like

- (a) Water
- (b) Fizzy but not juice or water
- (c) Neither fizzy, juice nor water

10. 200 children are asked what type of chocolate they like:

103 like milk chocolate

79 like dark chocolate

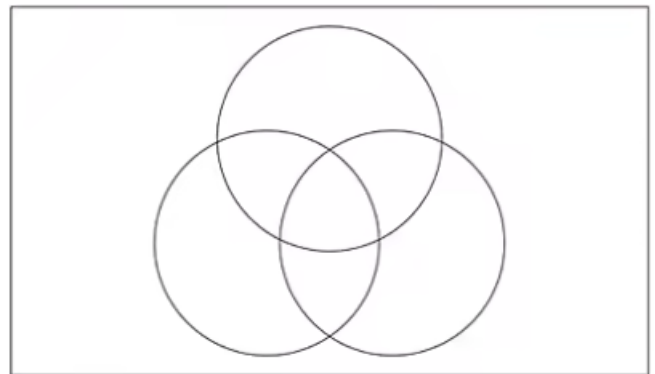
90 like white chocolate

41 like milk and dark chocolate

53 like milk and white chocolate

44 like dark and white chocolate

31 like milk, dark and white chocolate



Draw a Venn Diagram to represent this information

A child is picked at random. What is the probability that they like:

- (a) Like milk chocolate only
- (b) Do not like dark chocolate
- (c) Like dark and white chocolate but not milk chocolate
- (d) Do not like milk, dark or white chocolate