

Drawing Venn Diagrams

1. A group of 50 children were asked if they liked Teletubbies and if they liked Rosie and Jim. 12 children liked Rosie and Jim, 42 liked Teletubbies, 8 liked both programmes
 - a. Draw a Venn Diagram showing this information
 - b. How many children did not like either programme
 - c. How many children only liked Rosie and Jim
2. A group of 100 people were asked if they owned a pair of Converse shoes and if they owned a pair of Nike trainers. 48 people owned Converse, 14 people owned both types of footwear, 18 people owned neither.
 - a. Draw a Venn Diagram showing this information
 - b. How many people own Nike
 - c. How many people only own Converse
3. People were asked if they were Right or Left Handed. The group consisted of 30 women and 70 men. 27 of the women were Right Handed, 12 of the men were Left Handed.
 - a. Draw a Venn Diagram showing this information
4. A group of 80 people were asked if they liked different fruit. 38 said they liked apples, 42 like bananas, and 14 like cherries. 6 liked all 3 fruits. 20 people like apples and bananas, 10 of the people who liked cherries also liked bananas. 6 people like cherries and apples.
 - a. Draw a Venn Diagram showing this information
 - b. How many people liked apples and bananas but did not like cherries
 - c. How many people liked none of the fruit
 - d. How many people liked just one of the fruits
 - e. How many people liked at least 2 of the fruits
5. A group of 40 people were asked what they ate for lunch. $\frac{3}{4}$ of the group had a sandwich, $\frac{1}{2}$ the group had some fruit, 12 people had yoghurt. 10 of the people who had yoghurt also had fruit, $\frac{1}{4}$ of the group had all 3 items, $\frac{2}{3}$ of the sandwich eaters also had fruit. 11 of the sandwich eaters also had yoghurt.
 - a. Draw a Venn Diagram to show this information
 - b. How many people had just 1 of the named items
 - c. How many people had fruit and yoghurt but no sandwich
 - d. How many people had none of the named items
 - e. How many people just had yoghurt
 - f. How many people had a sandwich plus one other item