

Venn Diagrams

Objectives and rules: For these questions you need to look at the diagrams carefully.

Venn Diagrams are for sorting data out. Data can go in whichever circle it belongs in.

The overlap in the centre is for data which could go equally well in both circles.

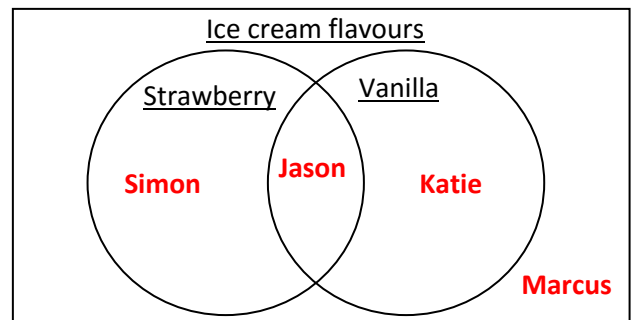
Data which cannot go in either circle is placed outside the circles.

Remember to count the data in the overlapping area when finding totals

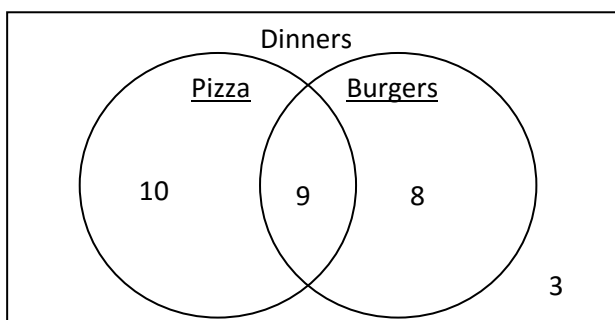
Notes:

E.g. 1 Read the information below and write the four names onto the Venn diagram.

Simon only likes strawberry ice cream
Katie only likes vanilla ice cream
Jason likes vanilla and strawberry ice cream
Marcus only likes chocolate ice cream



E.g. 2 This Venn diagram shows the dinners that 30 children like.
 Look at the diagram and then answer the questions.



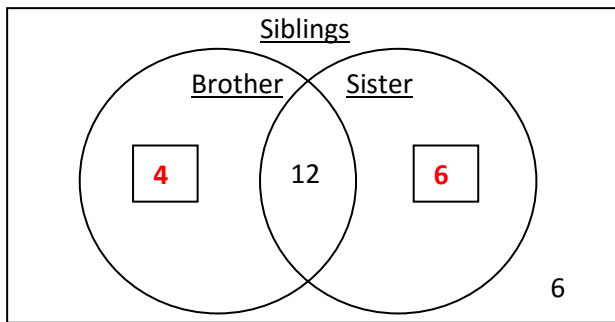
a) How many children like burgers?

17 children.

b) How many children don't like pizza?

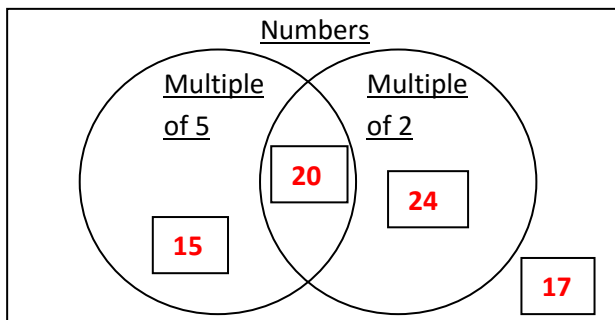
11 children.

E.g. 3 In Miss Jones' class there are 28 children.
 16 of them have at least one brother, 18 of them have at least one sister.
 Six children have no brothers or sisters.



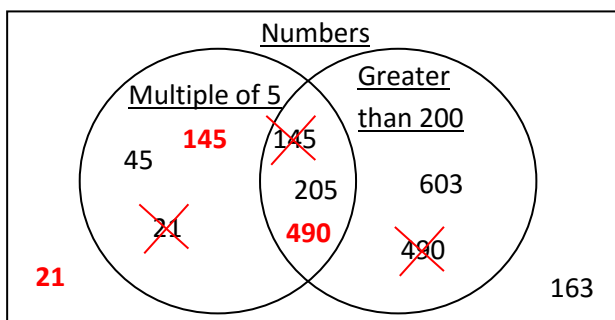
Fill in the missing numbers on the diagram.

E.g. 4 Write four of your own two digit numbers onto this Venn diagram:

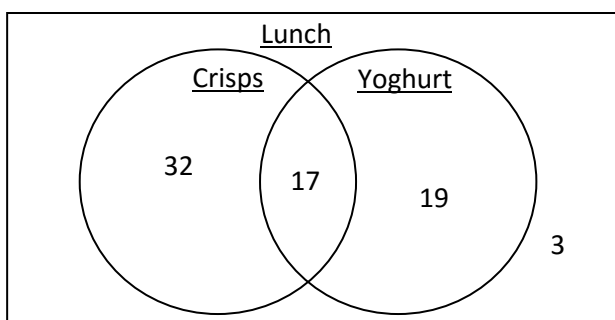


Independent work

1. Three numbers on this Venn diagram are in the wrong place. Cross them out and rewrite them in their correct places

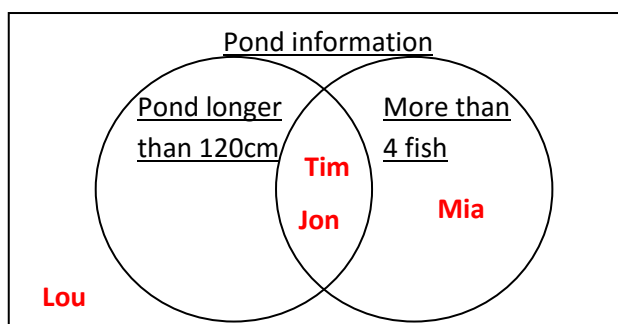
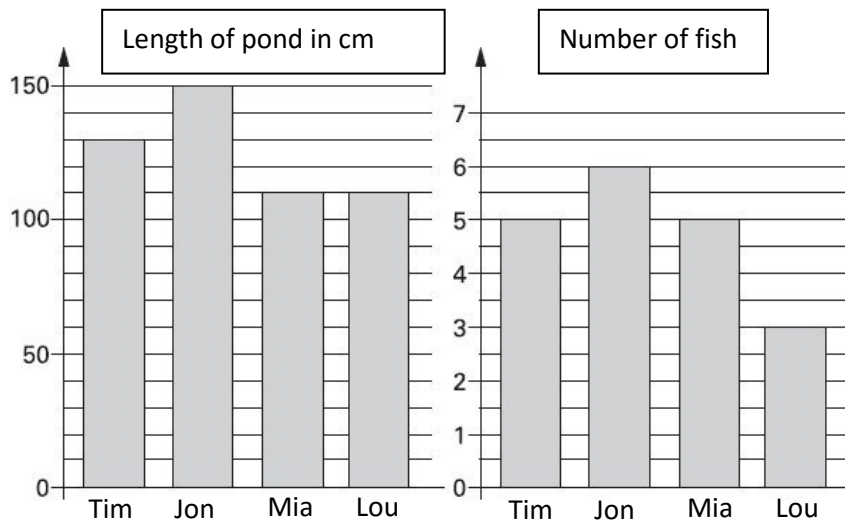


2. This Venn diagram shows what some children had with their lunch one day:



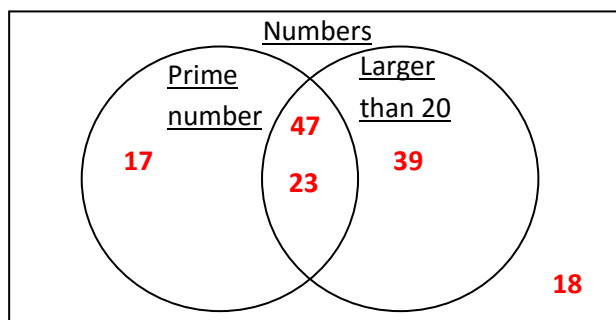
- a) How many children had yoghurt?
36 children
- b) How many children did not have crisps?
22 children

3. Use this graph to add the children's names onto the Venn diagram below:

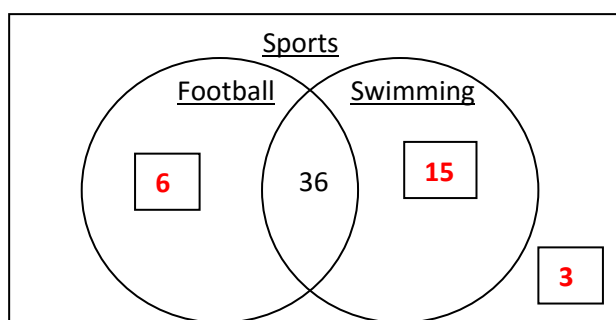


4. Write these four numbers onto their correct places on the Venn diagram below

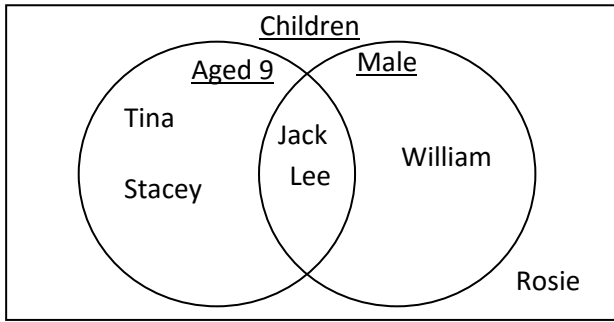
39 17 23 18 47



5. In Year 4 there are 60 children.
42 of them like football. 51 of them enjoy swimming.
Fill in the missing numbers on the Venn diagram below



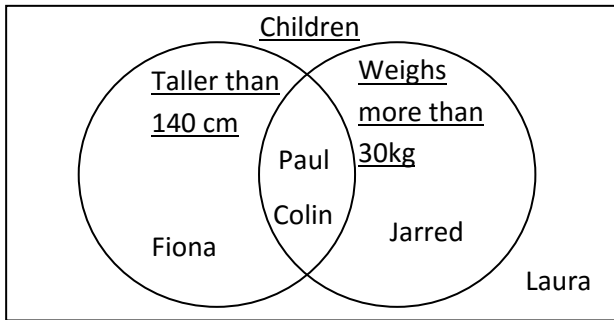
6. A group of children sorted themselves into groups using the Venn diagram below.



Use the Venn diagram to complete this table:

Girls		Boys	
Name	Age	Name	Age
<u>Stacey</u>	9	<u>William</u>	8
Tina	<u>9</u>	<u>Jack</u>	9
<u>Rosie</u>	8	<u>Lee</u>	9

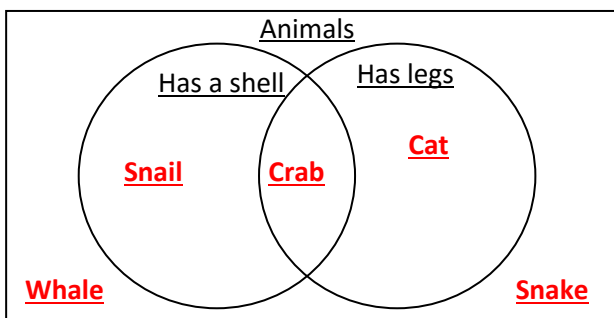
7. A different group of children sorted themselves out into groups.



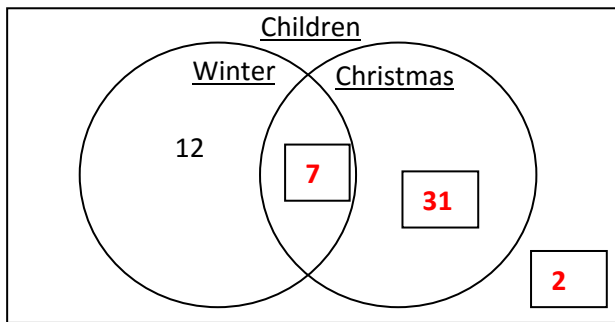
Use the information from the Venn diagram to complete the diagram below.

	Is taller than 140cm	Is not taller than 140cm
Weights more than 30kg	<u>Paul</u> <u>Colin</u>	<u>Jarred</u>
Does not weigh more than 30kg	<u>Fiona</u>	<u>Laura</u>

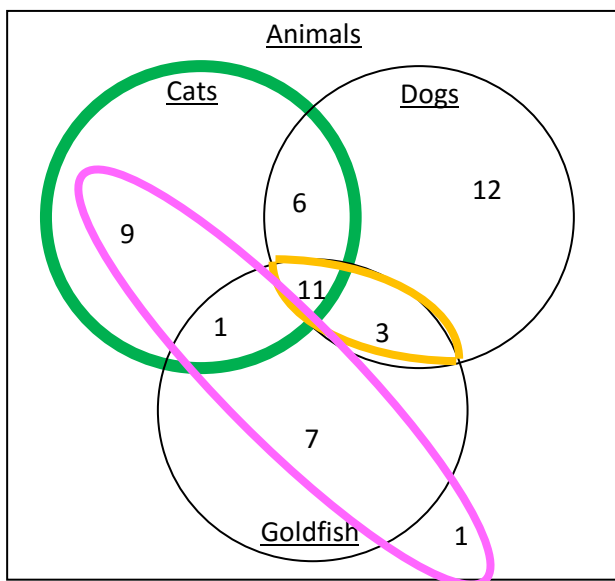
8. Write these animals onto the Venn diagram below.



9. 52 people were asked if they like Christmas and winter.
 19 people like winter. 38 people like Christmas.
 Fill in the missing numbers on the Venn diagram below.



10. The Venn diagram below shows what animals children in year 2 like.



- a) How many children like cats?
27 children
- b) How many children like dogs and goldfish?
14 children
- c) How many children do not like dogs?
18 children