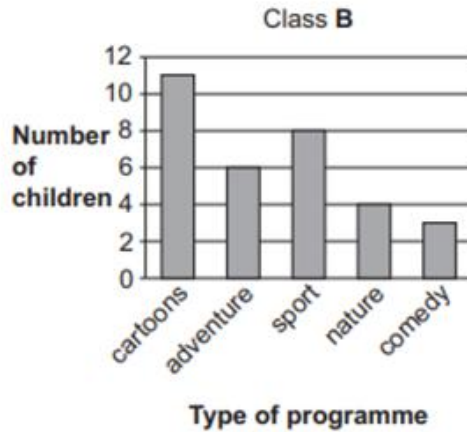
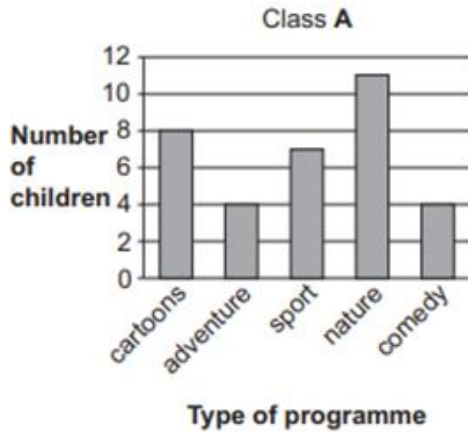


Name .....

Class.....

1)

These two graphs show their results.

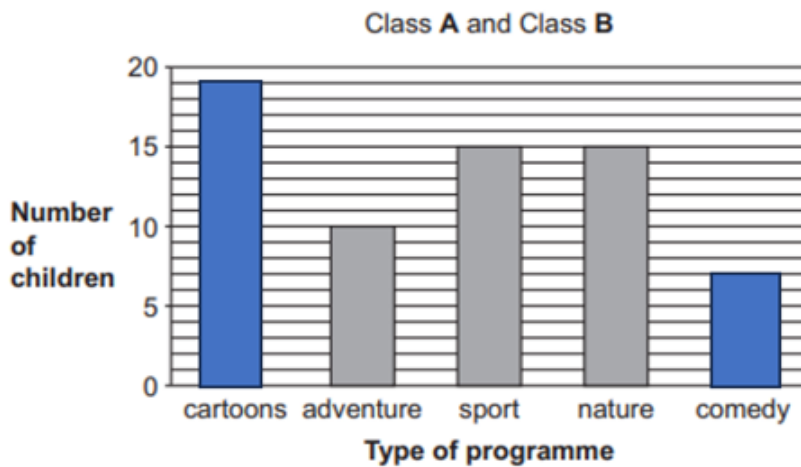


(a) How many **more** children like nature programmes in Class **A** than in Class **B**?

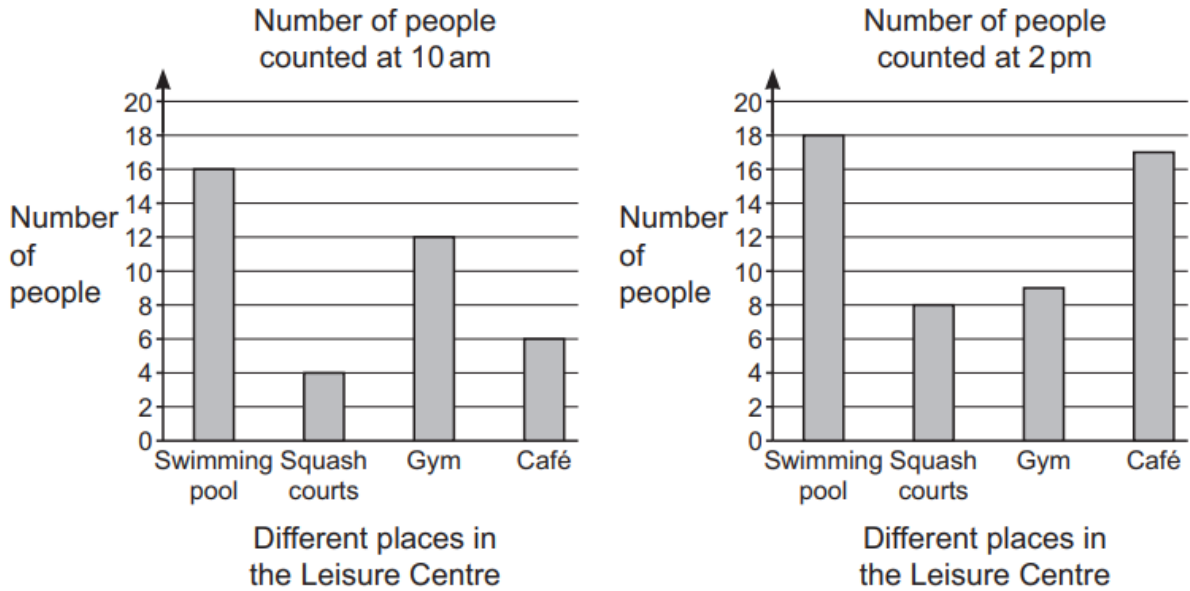
**11 - 4 = 7** children

(b) The data for Class **A** and Class **B** is added together.

Draw **two** bars on this bar chart to show **all** the information for Class **A** and Class **B**.



- 2) Class 4 counted the number of people in different places in a Leisure Centre. They counted the people at 10 am and 2 pm. The bar charts show their results.



- (a) How many **more** people were in the gym at 10 am than at 2 pm?

..... **3** ..... people [1]

- (b) Suggest a reason why more people were in the café at 2 pm than at 10 am.

.....  
 ..... [1]

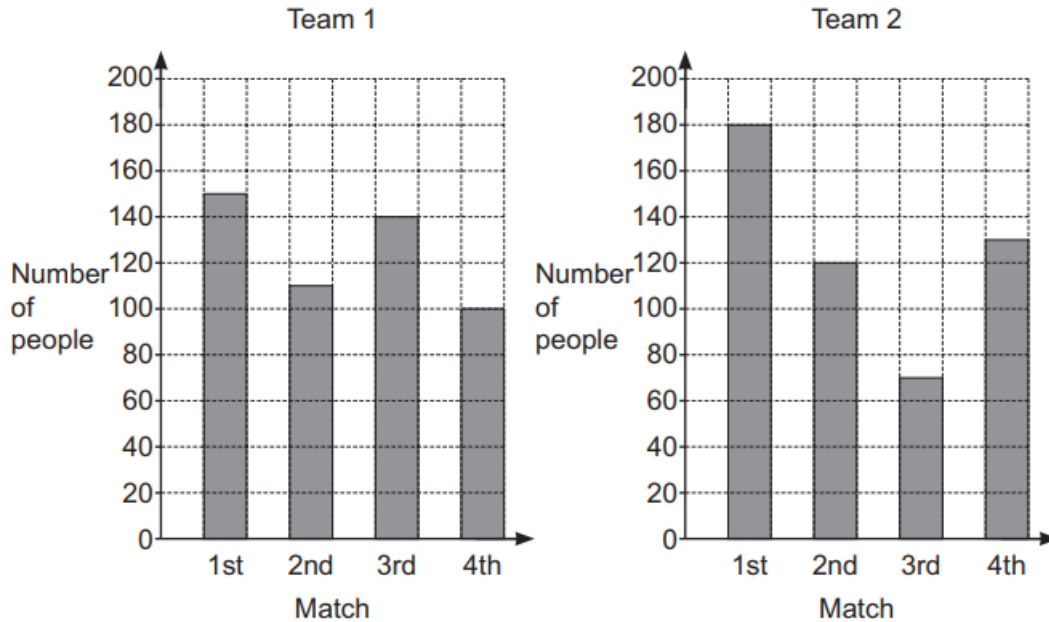
(b)

Accept any reasonable answer.

For example

- People were having their lunch.
- It was raining outside so people were sheltering from the rain.
- The food was being sold cheaper.

- 3) Here are two bar charts.  
They show the number of people that attend the first four matches of two football teams.



- (a) Write the **smallest** number of people that attend any of the matches.

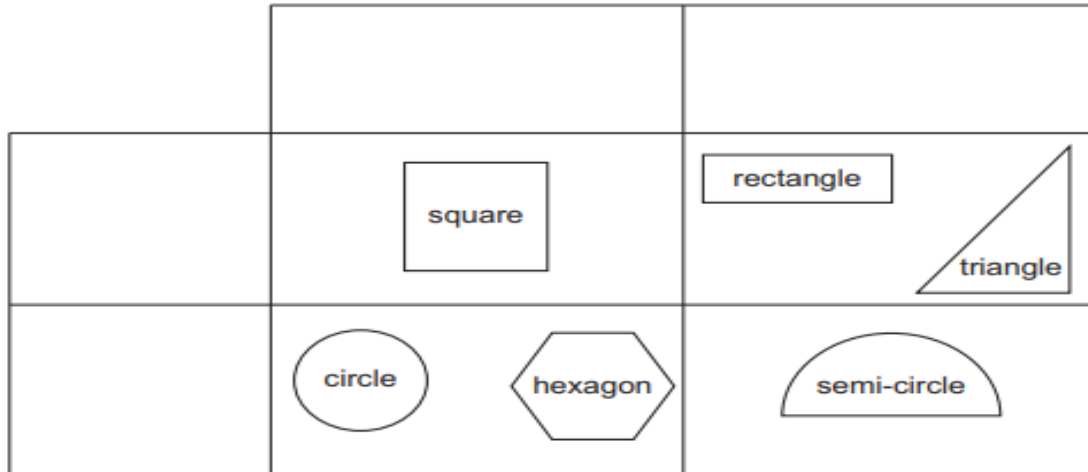
..... **70** ..... [1]

- (b) Write the total number of people that attend the four matches of Team 1

..... **500** ..... [1]

4) Some shapes are placed in a sorting diagram.

The four labels are missing.



Here are some possible labels.

- A      Have at least 1 right angle
- B      Have exactly 2 lines of symmetry
- C      Have at least 4 vertices
- D      Regular shapes
- E      Have no right angles
- F      Irregular shapes
- G      Have no lines of symmetry

Write a letter in **each** empty box on the sorting diagram to show the correct labels. [2]

Question	Answer											
23	<table border="1" style="width: 100%; text-align: center;"> <tr> <td data-bbox="628 421 660 465">D</td> <td data-bbox="660 421 983 566">           Regular shapes <b>D</b> </td> <td data-bbox="983 421 1345 566">           Irregular shapes <b>F</b> </td> </tr> <tr> <td data-bbox="199 600 245 633">A</td> <td data-bbox="316 600 628 757">           Have at least 1 right angle <b>A</b> square         </td> <td data-bbox="995 600 1302 757">           rectangle triangle         </td> </tr> <tr> <td data-bbox="272 790 331 824">E</td> <td data-bbox="395 790 628 947">           Have no right angles <b>E</b> circle hexagon         </td> <td data-bbox="1059 790 1302 947">           semi-circle         </td> </tr> </table>			D	Regular shapes <b>D</b>	Irregular shapes <b>F</b>	A	Have at least 1 right angle <b>A</b> square	rectangle triangle	E	Have no right angles <b>E</b> circle hexagon	semi-circle
D	Regular shapes <b>D</b>	Irregular shapes <b>F</b>										
A	Have at least 1 right angle <b>A</b> square	rectangle triangle										
E	Have no right angles <b>E</b> circle hexagon	semi-circle										

5) Mia writes information about her friends in a table.

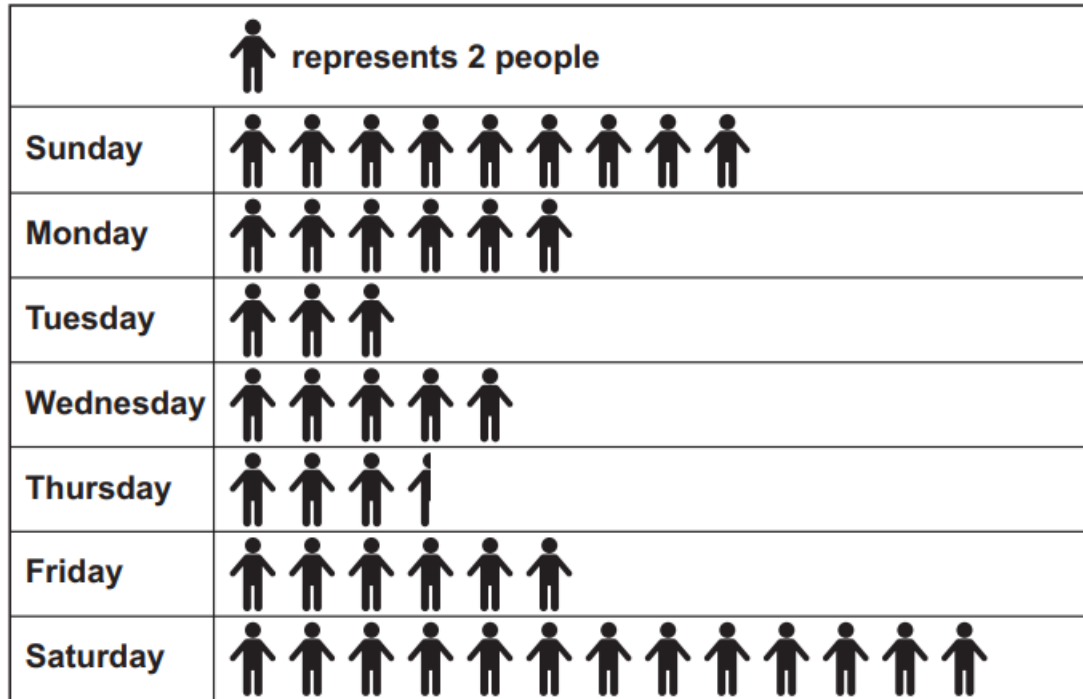
<b>Name</b>	<b>Eye colour</b>	<b>Hair colour</b>
Mike	Brown	Brown
Carlos	Green	Black
Lily	Blue	Blond
Samira	Brown	Black

She organises this information in a Carroll diagram.

	<b>Brown eyes</b>	<b>Not brown eyes</b>
<b>Brown hair</b>	Mike	
<b>Not brown hair</b>	Samira	Carlos Lily

6) Here is a pictogram.

It shows the number of visitors to a library in one week.



Chen looks at the chart and says,

'I know an odd number of people visited the library this week.'

Explain how Chen knows this without finding the total.




**An answer that recognises that there is 1 half stick man so the total must be odd e.g.**

- There is only one half a stick man.
- It's six even numbers plus an odd number.
- It's an even number every day except Thursday.
- It's only odd on Thursday.

- 7) Safia, Mia and Naomi all collect soft toys.  
The pictogram shows the number of soft toys each girl collects.  
The girls are shown as A, B and C.



represents 2 soft toys

Girl	Number of soft toys
A	
B	
C	

Safia and Naomi make these statements.

Safia says, 'I have fewer soft toys than Naomi.'

Naomi says, 'Safia and I have 40 soft toys altogether.'

Use the pictogram to match each name with the correct letter.

Safia

Mia




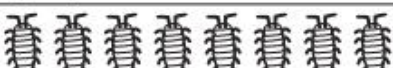
Naomi

Safia	Mia	Naomi	1	Accept any clear indication.
B	A	C		All <b>three</b> answers correct for the mark.

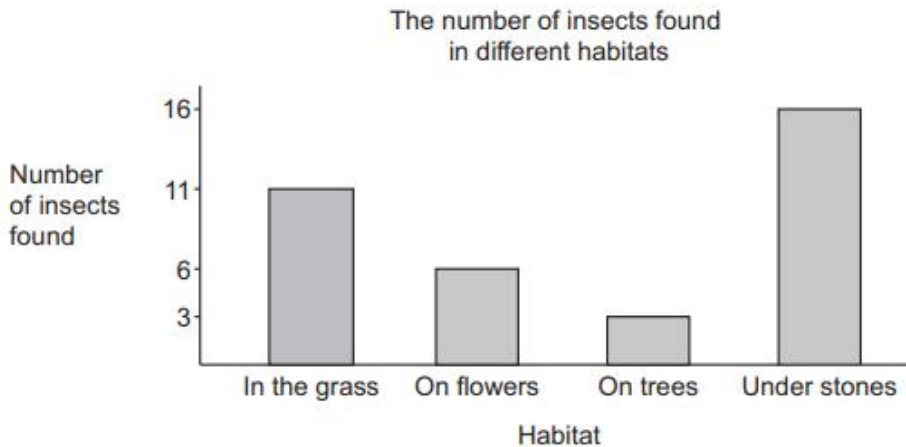


8) Hassan looks for insects in different habitats.  
Here is a pictogram of his results.

 represents 2 insects

Habitat	Number of insects found
In the grass	
On flowers	
On trees	
Under stones	

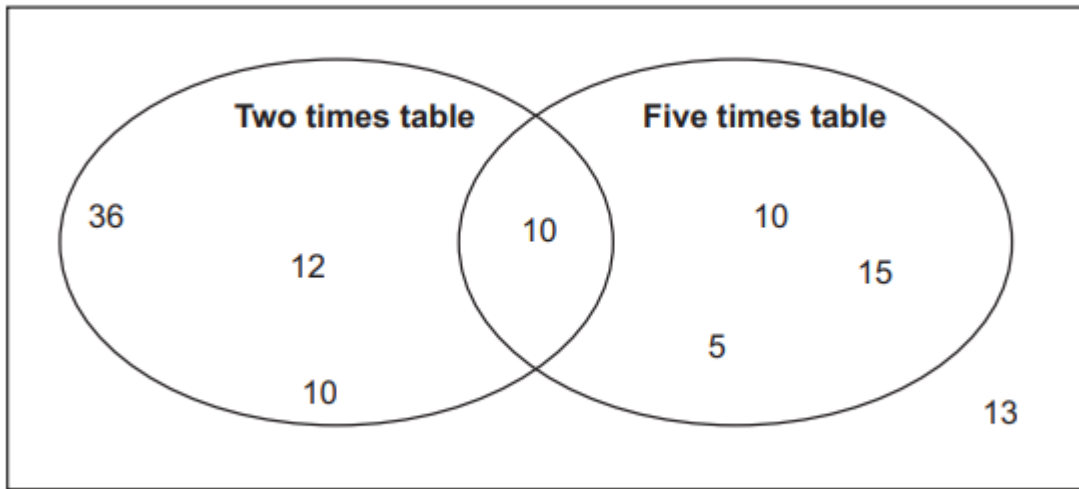
Hassan draws a bar chart to show this information.



Suggest **one** way Hassan could improve his bar chart.

The vertical axis could be marked in equal intervals,  
e.g. in intervals of two.

9) Ahmed draws a Venn diagram.



Pierre says,

'Ahmed you have made a mistake.'

(a) Write an explanation showing Ahmed how to improve his Venn diagram.

.....

.....

..... [1]

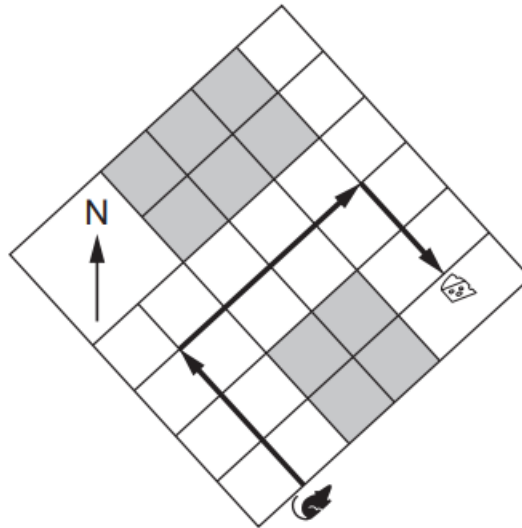
(b) Ahmed adds more numbers to his Venn diagram.

Describe **all** the numbers he writes in the intersection.

..... [1]

(a)	An explanation that states Ahmed has written 10 three times and the number 10 should only be in the intersection/overlap, e.g. 10 only needs to be in the middle.
(b)	A description that states the numbers will all be in the ten times table, e.g. They all end in zero.

- 10) A mouse is put into a maze.  
The mouse follows the path to get to the cheese.

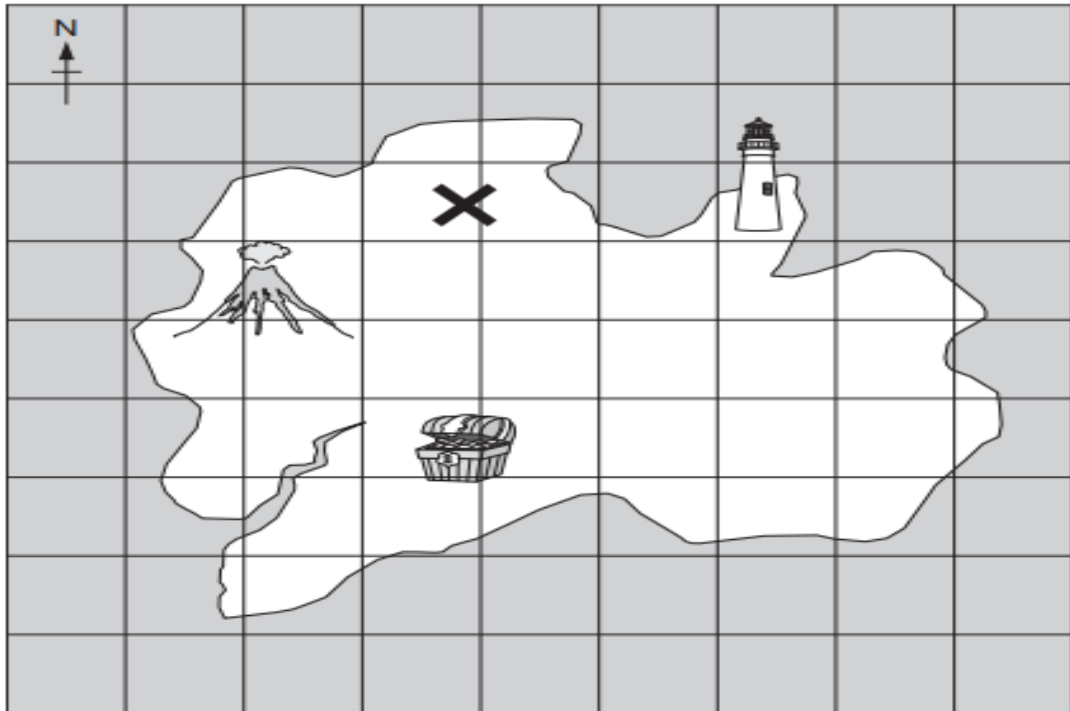


Complete the table to show the path the mouse takes.

<b>Number of squares</b>	<b>Direction of arrow</b>
(3)	<b>NW</b>
(4)	<b>NE</b>
(2)	<b>SE</b>




11) Here is a map of an island.

Jamila is standing on the place marked with a cross (X).



Complete the table showing the direction of the treasure, lighthouse and volcano from the cross (X).

One has been done for you.

		Direction from cross (X)
treasure		(south)
lighthouse		east
volcano		southwest



13) Plot the point  $(4, 6)$ .  $(3, 8)$   $(0, 2)$   $(5, 0)$

