

Diving into Mastery



Interpret Charts

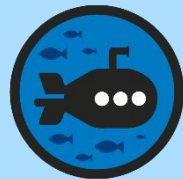
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Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



Diving



Deeper




Deepest

These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.



National Curriculum Objective

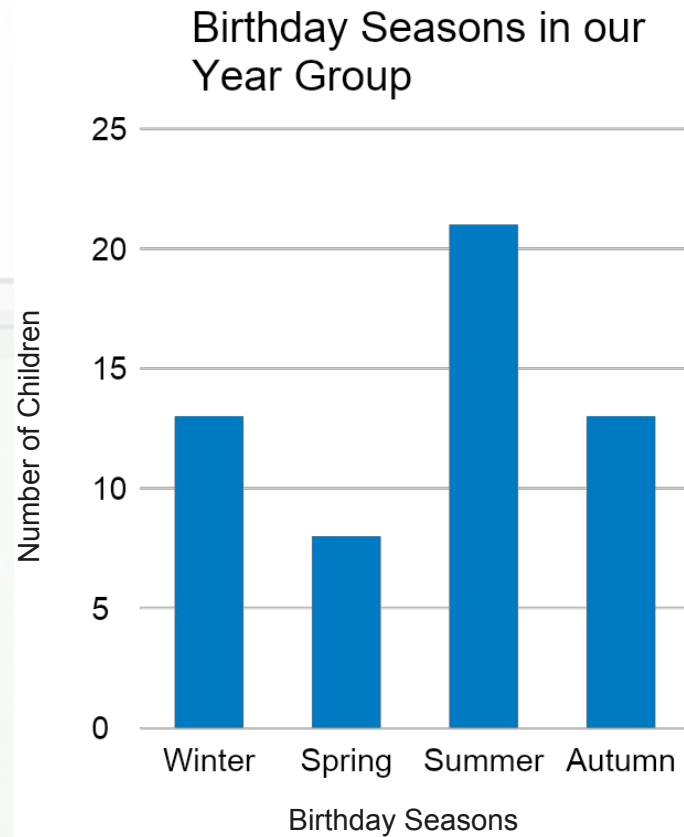
- Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.
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Interpret Charts

Diving



Sara wants to find out about the seasons when people in her year group have their birthdays.



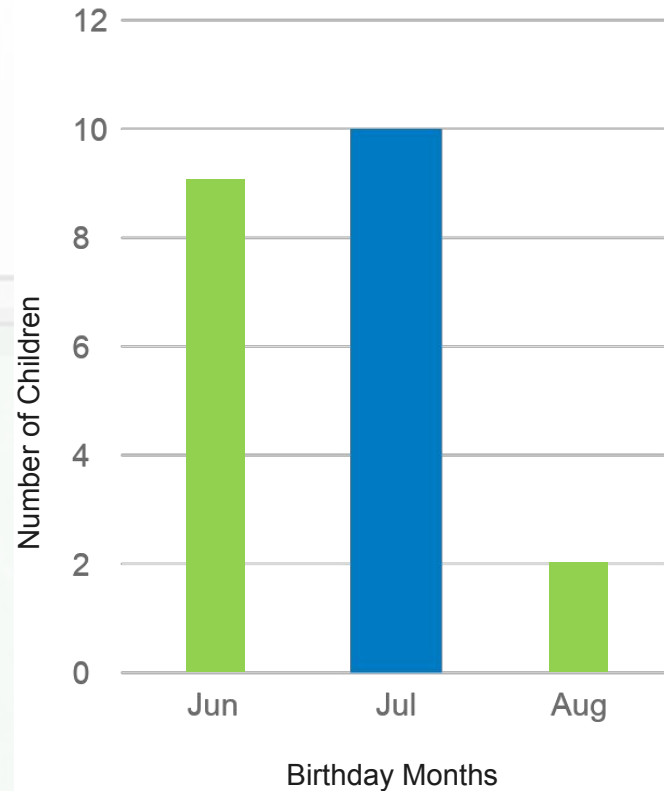
Which results are missing?
Use the bar chart to complete the table.

Birthday Seasons	Number of Children
Winter	13
Spring	8
Summer	21
Autumn	13

Interpret Charts

Diving

Summer Birthday Months
in our Year Group



Karim wants to find the birthday months of the children whose birthdays are in summer.

His bar chart is missing some results.
Use the table to fill them in.

Birthday Months	Number of Children
Jun	9
Jul	10
Aug	2



Leo has recorded the favourite types of birthday cake in his class.

These are the types of cake and the number of children who voted for each.

Chocolate: 5 boys and 10 girls

Sponge: 6 boys and 3 girls

Fruitcake: 1 boy and 2 girls

Would you present this data in a table, bar chart or pictogram?

Click to see examples of each:

Table

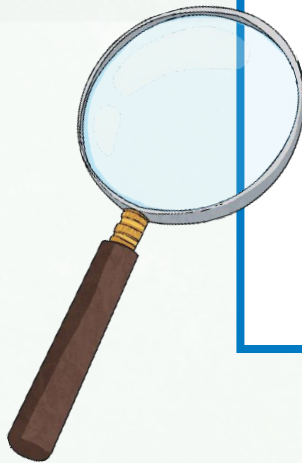
Bar Chart

Pictogram



Table

Type of Cake	Boys Who Liked It	Girls Who Liked It
Chocolate	5	10
Sponge	6	3
Fruitcake	1	2



What is clear?
What is unclear?

Discuss the reasons for and against
using the method to present results.

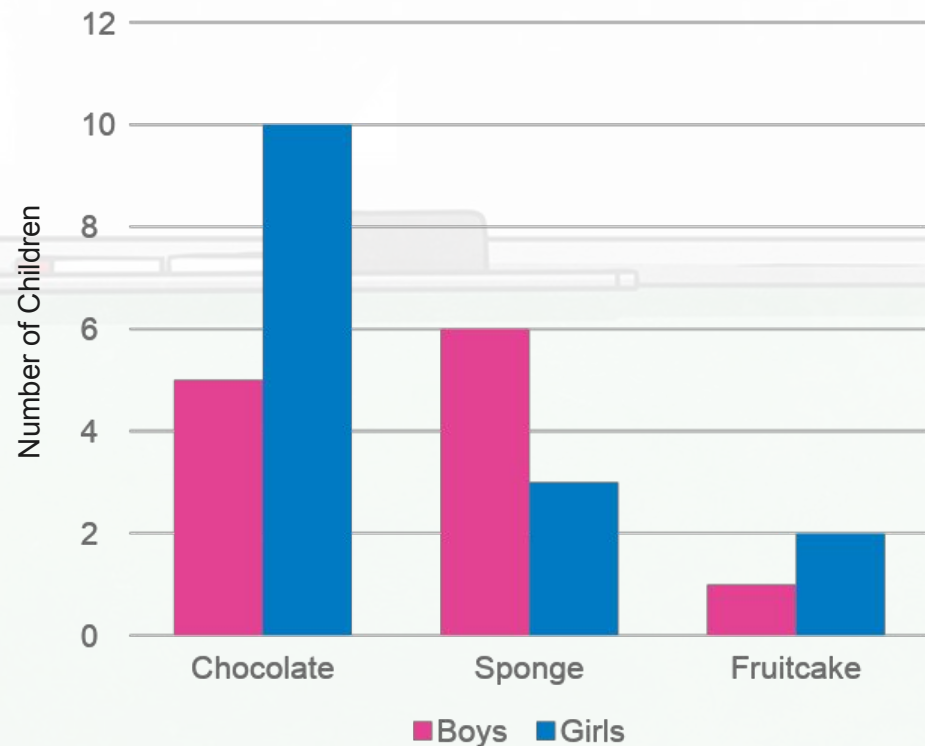
Bar Chart

What is clear?
What is unclear?

Discuss the reasons for
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method to present results.



Our Class's Favourite Birthday Cakes







Pictogra



Key

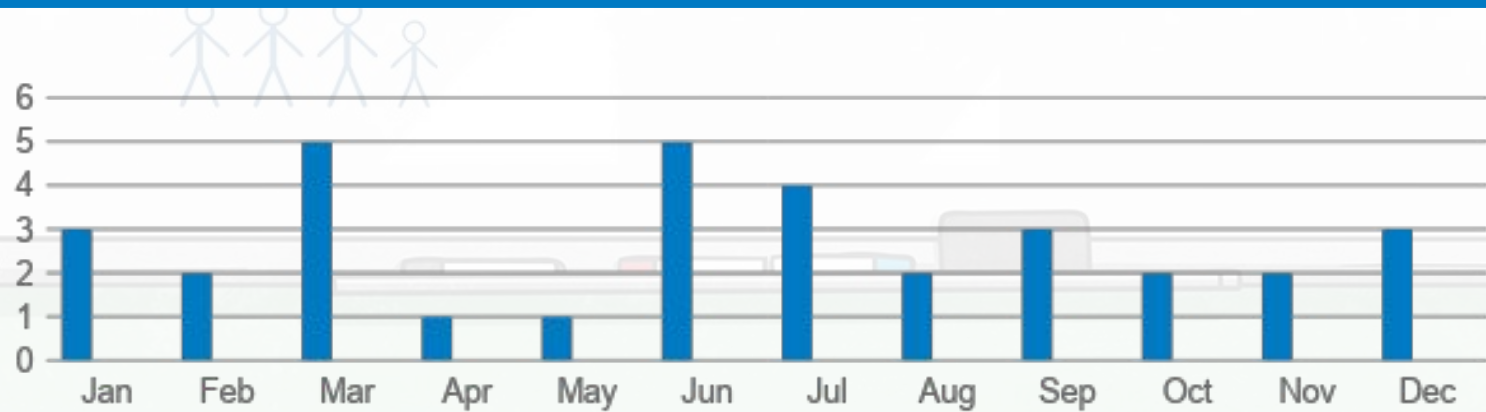
 = 1 boy
 = 1 girl

What is clear?
What is unclear?

Discuss the reasons for and against using the method to present results.



Emmeline has recorded people's birthdays in this bar chart. What could she do to improve it?



- Give her chart a title
- Label the axes
- Make her scale clearer



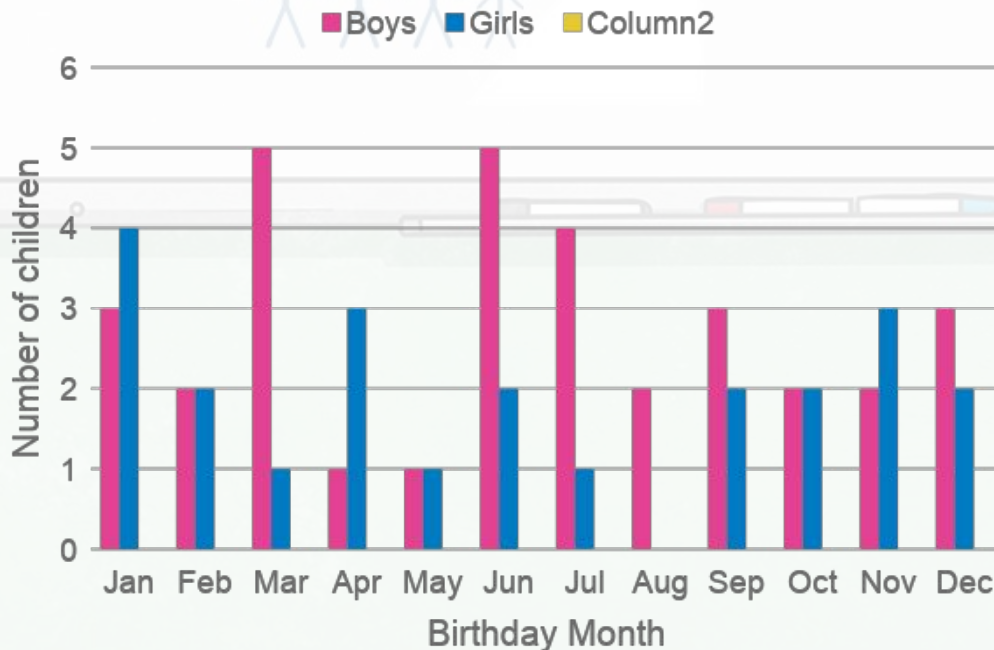
Interpret Charts

Deepest



Answer these questions about this chart:

Birthday Months in Year 4



Can you ask a question for someone else to answer using this chart?

How many boys are there in year 4?

33

How many children have a birthday in June?

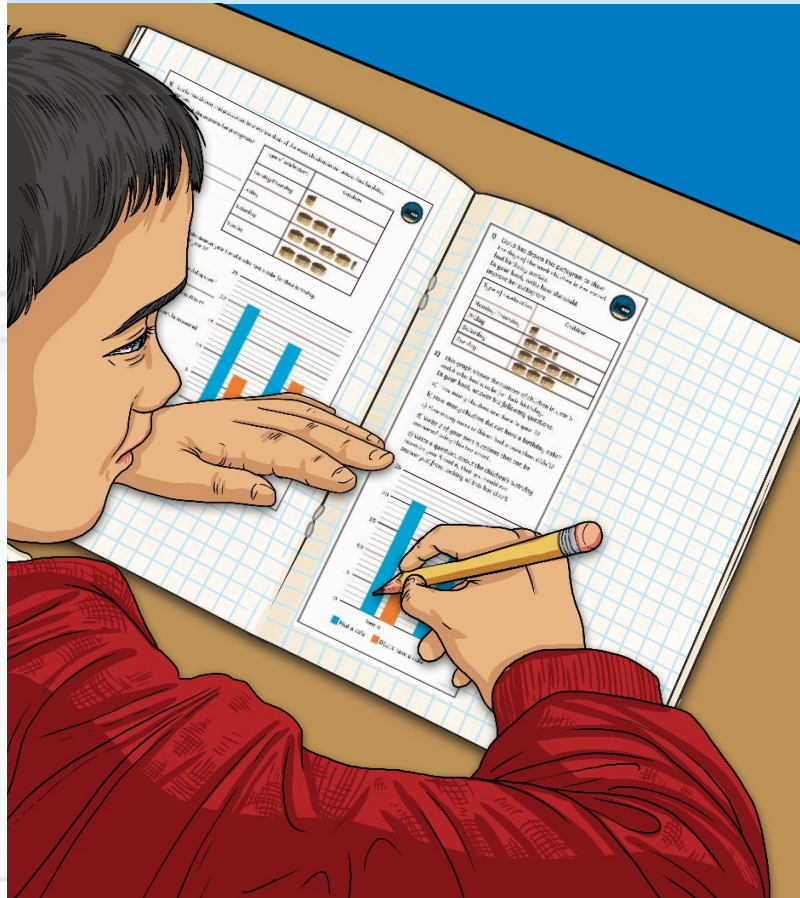
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Which 4 months have the same number of birthdays?

July, September, November and December all have 5 birthdays.

Interpret Charts

Dive in by completing your own activity!



- 1) Hans is a table and a bar chart of 29 children. Some results are

Month	Number of children
January	
February	3
March	6
April	
May	3
June	2
July	1
August	
September	
October	
November	2
December	2
Total	29

- 1) Amir wants to present the birth record this information?

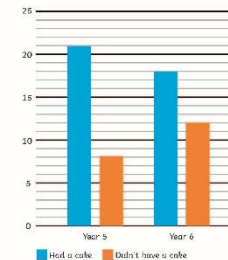
Explain why:

- 2) On squared paper, record the birth record of Amir's school using your chosen Remember you will need to stop and go's on the chart together.

- 1) Carla has drawn this pictogram to show the days of the week children in her school had birthday parties. In your book, write how she could improve her pictogram.

Type of celebration	Children
Monday-Thursday	
Friday	
Saturday	
Sunday	

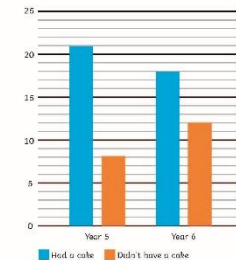
- 2) This graph shows the number of children in year 5 and 6 who had a cake for their birthday. In your book, answer the following questions:
a) How many children are there in year 5?
b) How many children did not have a birthday cake?
c) How many more children had a cake than didn't?
d) Write 2 of your own questions that can be answered using this bar chart.
e) Write a question, about the children's birthday cakes in year 5 and 6, that you could not answer just from looking at this bar chart.



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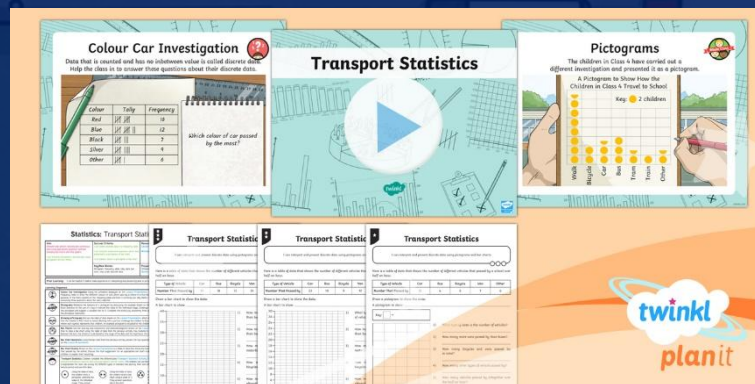
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Need Planning to Complement this National Curriculum

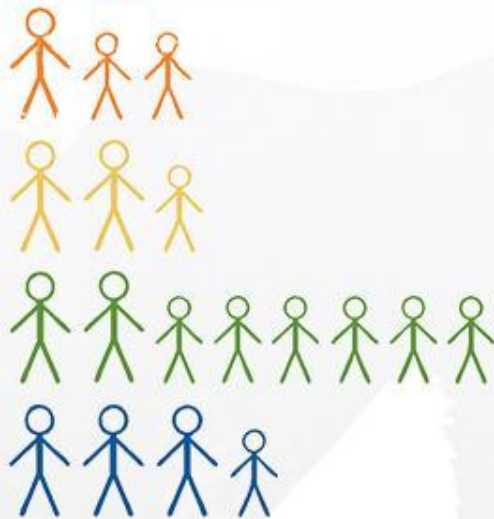
Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.

For more planning resources to support this aim, [click here](#).



Twinkl PlanIt is our award-winning scheme of work with over 4000 resources.





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