### Here is a table and a bar chart showing the number of birthdays in each month of the year in a class of 29 children. Some results are missing. Fill in or draw on the missing results and label the axes.



- Amir wants to present the birthdays of everyone in his school. Should he use a table, bar chart or pictogram to record this information? Explain why.
   Answers may vary but explanations could include: Pictograms may be unclear with higher numbers. A bar chart as lots of information can be recorded.
- 2) On squared paper, record the birthdays in Amir's school using your chosen method. Remember you will need to show boys and girls on the chart together.
  Children should demonstrate separate coloured bars or pictorial representations for boys and girls.
- Carla has drawn this pictogram to show the days of the week when children in her school had birthday parties. How could she improve her pictogram?
  Answers could include: clearer headings; a title; much clearer pictures; a key showing how many children each picture represents.
- 2) This graph shows the number of children in year 5 and 6 who had a cake for their birthday.
  - a) How many children are there in year 5? 29
  - b) How many children did not have a birthday cake? 20
  - c) How many more children had a cake than didn't? 19
  - d) Write two of your own questions that can be answered using this bar chart: Multiple answers possible.
  - 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. *Multiple answers possible*.



1) Here is a table and a bar chart showing the number of birthdays in each month of the year in a class of 29 children. Some results are missing. Fill in or draw on the missing results and label the axes.

Month	Number of Children	Birthdays in Our Class	
January		7	
February	3		
March	6	6	
April			
May	1	5	
June	2		
July	1	4	
August		3	
September		5	
October		2	
November	2		
December	2	1	
Total	29		

1) Amir wants to present the birthdays of everyone in his school. Should he use a bar chart or pictogram to record this information?



		Month	Number of Girls	Number of Boys
E	Explain why:	January	16	18
		February	11	8
		March	19	6
2)		April	21	17
		May	19	23
		June	17	23
		July	16	15
	On squared paper, record the birthdays in	August	14	24
	Remember you will need to show boys	September	20	19
	and girls on the chart together.	October	22	23
		November	10	18
		December	17	20

	v could she improve her pictogram?	Day of Celebration	Children
		Monday-Thursday	
		Friday	
		Saturday	
		Sunday	
Thi 5 ai	s graph shows the number of children in year nd 6 who had a cake for their birthday.	25	
α)	How many children are there in year 5?	20	
b)	How many children did not have a birthday c	ake?	
c)	How many more children had a cake than did	15 In't?	
d)	Write two of your own questions that can be answered using this bar chart:		
		5 	
		0	Year 5 Year 6
		——————————————————————————————————————	ı cake 📕 Didn't have a cake
e)	Write a question, about the children's birthda cakes in year 5 and 6, that you could not answer just from looking at this bar chart.	ក	



## **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:



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.



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

Rog

Diving

**Interpret Charts** 





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













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### Dive in by completing your own activity!

/ / / /

R Q

**Interpret Charts** 





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



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April	
May	1
June	2
July	1
August	
September	
October	
November	2
December	2
Total	29





 Amir wants to present the birthdays of everyone in his school. Should he use a bar chart or pictogram to record this information? Explain why in your book.



Month	Number of Girls	Number of Boys
January	16	18
February	11	8
March	19	6
April	21	17
May	19	23
June	17	23
July	16	15
August	14	24
September	20	19
October	22	23
November	10	18
December	17	20

2) In your book or on squared paper, record the birthdays in Amir's school using your chosen method. Remember you will need to show boys and girls on the chart together. 1) Amir wants to present the birthdays of everyone in his school. Should he use a bar chart or pictogram to record this information? Explain why in your book.



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2) In your book or on squared paper, record the birthdays in Amir's school using your chosen method. Remember you will need to show

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



Day of Celebration	Children
Monday-Thursday	Ē
Friday	
Saturday	E E
Sunday	E E

- 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 two 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.



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



Day of Celebration	Children
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Friday	
Saturday	
Sunday	

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