

## Maths Assessment Year 4: Statistics

- 1. Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.
- 2. Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

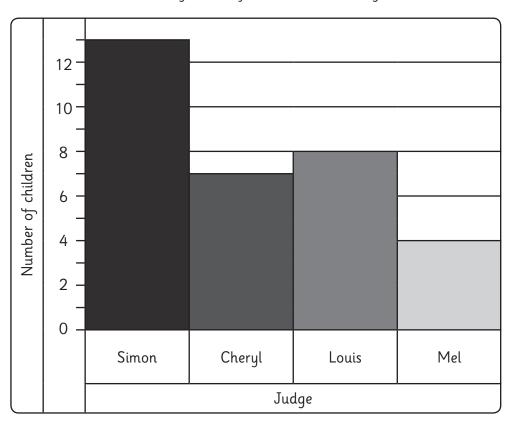
# twinkl

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1. Here is a bar chart showing Year 4's favourite X Factor Judges:



a)	How	many	children	like	Cheryl	the	best?
,			0.00000		J. 10. 91		



b) How many more children prefer Simon than Louis?



c) Chris was absent when the survey was taken, he said he liked Louis the best, so including Chris's vote, how many children liked Louis the best?

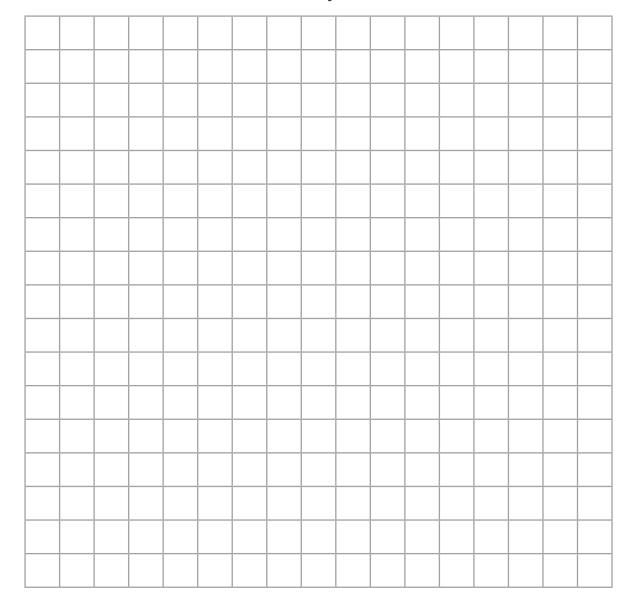




**2.** Year 4 did a survey outside school and collected the following data regarding the colours of cars that passed their school:

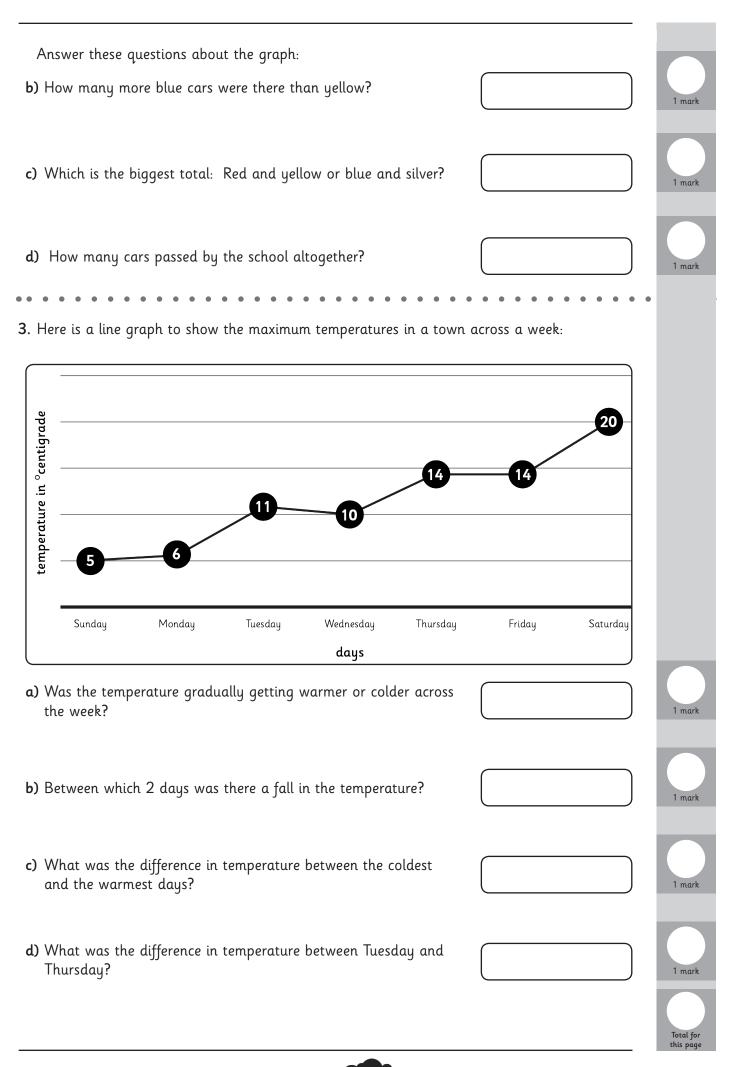
colour of car	number that passed by		
red	20		
blue	16		
silver	9		
white	5		
gold	1		
yellow	2		

**a)** Use the data to draw a bar chart on the grid below. Make sure you label the axes, give the chart a title and choose a suitable scale for the axes.



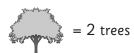






4. The following pictogram shows a tree planting project in a local town:

week1	
week 2	
week 3	
week 4	
week 5	
week 6	



- a) What does represent
- b) There were 4 trees planted in week 4, add this to the chart.
- c) Which week were the most trees planted?
- d) How many trees were planted in the 6 weeks?









## **Answer Sheet: Maths Assessment Year 4: Statistics**



question	answer	marks	notes					
<ul> <li>i. interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</li> <li>ii. solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</li> </ul>								
1a	7	1						
1b	5	1						
1c	9	1						
2a	Award 1 mark for each of the following:  Suitable title Suitable label for horizontal axis Suitable label for vertical axis Suitable scale, equally spaced Bars drawn accurately for each colour of car Bars equally spaced and equally drawn on the chart	up to 6 marks						
2b	14	1						
2c	blue and silver	1						
2d	53	1						
3a	warmer	1						
3b	Tuesday and Wednesday	1						
3c	15°	1	Accept just 15					
3d	3°	1						
4a	1 tree	1	Accept just 1					
4b	2 whole trees drawn in week 4	1						
4c	week 6	1						
4d	36	1						
		Total 20						