

Name:



Maths Assessment Year 3 Term 2: Statistics

1. Interpret and present data using bar charts, pictograms and tables. Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.

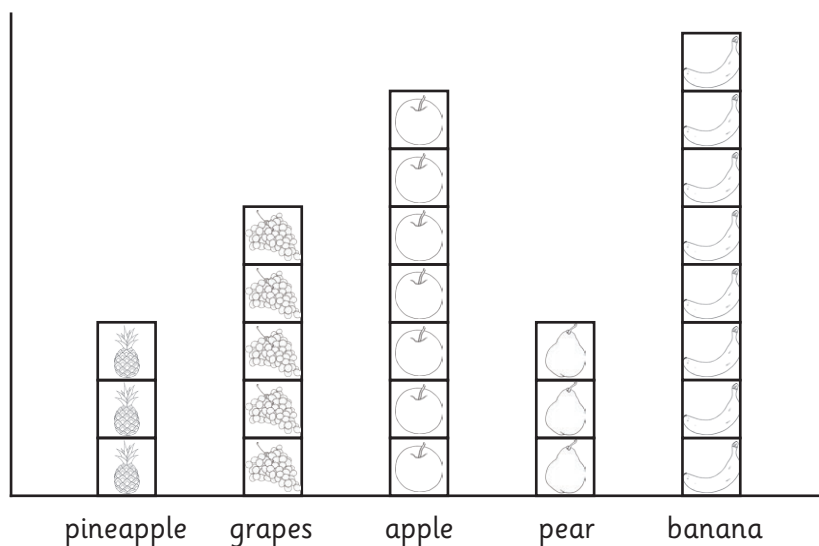
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Maths Assessment Year 3 Term 2: Statistics

1. Interpret and present data using bar charts, pictograms and tables. Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.

This pictogram shows the favourite fruit that 26 children chose.



- a) What was the children's favourite fruit?



1 mark

- b) How much **more** popular were apples than pears?



1 mark

- c) How many fewer children preferred pineapple than banana?



1 mark

- d) How many children chose grapes?



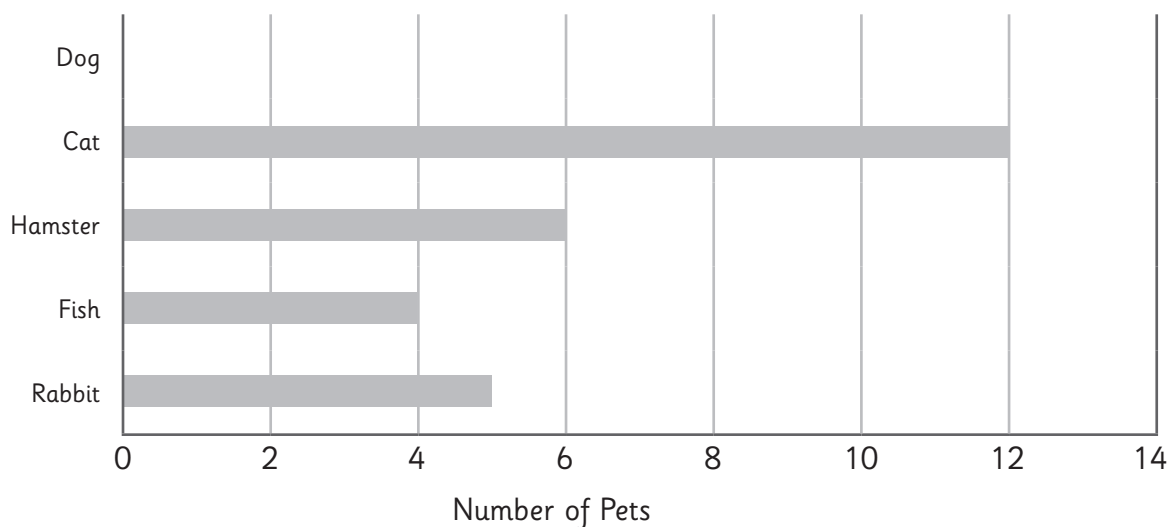
1 mark



Total for this page

2. Use the information in this bar chart and table to fill in the missing data in the chart and table:

A Chart to Show the Pets Owned by Children in a Class.



Animal	Number of pets
Dog	7
	12
Hamster	
	4
Rabbit	

1 mark

4 marks

3. Amy collected information about the different vehicles travelling along a road using a tally chart.

a) Complete the table.

Vehicle	Tally	Total
Car		
Motorcycle		
Lorry		13
Bus		

2 marks

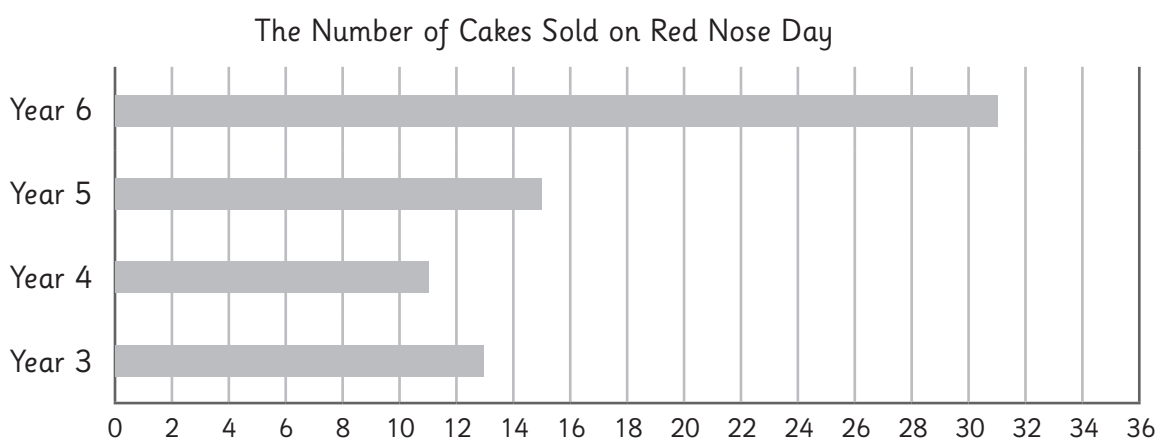
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b) Amy said that more than half of the vehicles were cars. Explain why she is correct.



2 marks

4. Here is a bar chart showing the number of cakes sold by 4 classes on Red Nose Day.



a) Which class sold the most cakes and how many cakes did they sell?

Class

Number of cakes sold



1 mark

b) How many more cakes did Year 3 sell than Year 4?



1 mark

c) Year 3 sold 13 more cakes at the end of the day. How many did they sell altogether now?



1 mark



Total for this page

5. A class of children collect information about children's eye colour. There are 28 children in the class.

Complete the table and bar chart with a possible outcome.

Eye Colour	Number of children
Blue	
Green	
Brown	
Grey	

Eye Colour in Year 3



4 marks

Total for this page

question	answer	marks	notes											
1. Interpret and present data using bar charts, pictograms and tables. Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.														
a	banana	1												
b	4	1												
c	5	1												
d	5	1												
2.														
	<p>The 'dog' bar should be half way between 6 and 8.</p>	1	Allow a small degree of error as long as the intention is clearly halfway between 6 and 8.											
	<table><thead><tr><th>Animal</th><th>Number of pets</th></tr></thead><tbody><tr><td>Dogs</td><td>7</td></tr><tr><td>Cats</td><td>12</td></tr><tr><td>Hamster</td><td>6</td></tr><tr><td>Fish</td><td>4</td></tr><tr><td>Rabbit</td><td>5</td></tr></tbody></table>	Animal	Number of pets	Dogs	7	Cats	12	Hamster	6	Fish	4	Rabbit	5	4
Animal	Number of pets													
Dogs	7													
Cats	12													
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3.														
a	1 mark for correctly totalling the tallies: 26, 5, 6 1 mark for correctly showing 13 as a tally 	2												
b	2 marks for showing that 26 is more than half the total which is 50. 1 mark for calculating the total is 50, even if this is not used to explain that half is 25, and 26 is more than 25.	2												
4.														
a	Year 6, 31 cakes (allow 30 – 32)	1												
b	7 (allow 2 – 4)	1												

question	answer	marks	notes
c	26 (allow 25 - 27)	1	
5.			
	<p>1 mark awarded for the total for each colour written in the table adding up to 28</p> <p>2 marks awarded if the bars are drawn accurately on the scale within a margin of error of 1 either side of the correct bar height.</p> <p>1 mark awarded if the axes on the chart are labelled "eye colour" and "number of children" or similar.</p>	4	
		Total 20	