

Name:



Maths Assessment Year 4 Term 3: 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.

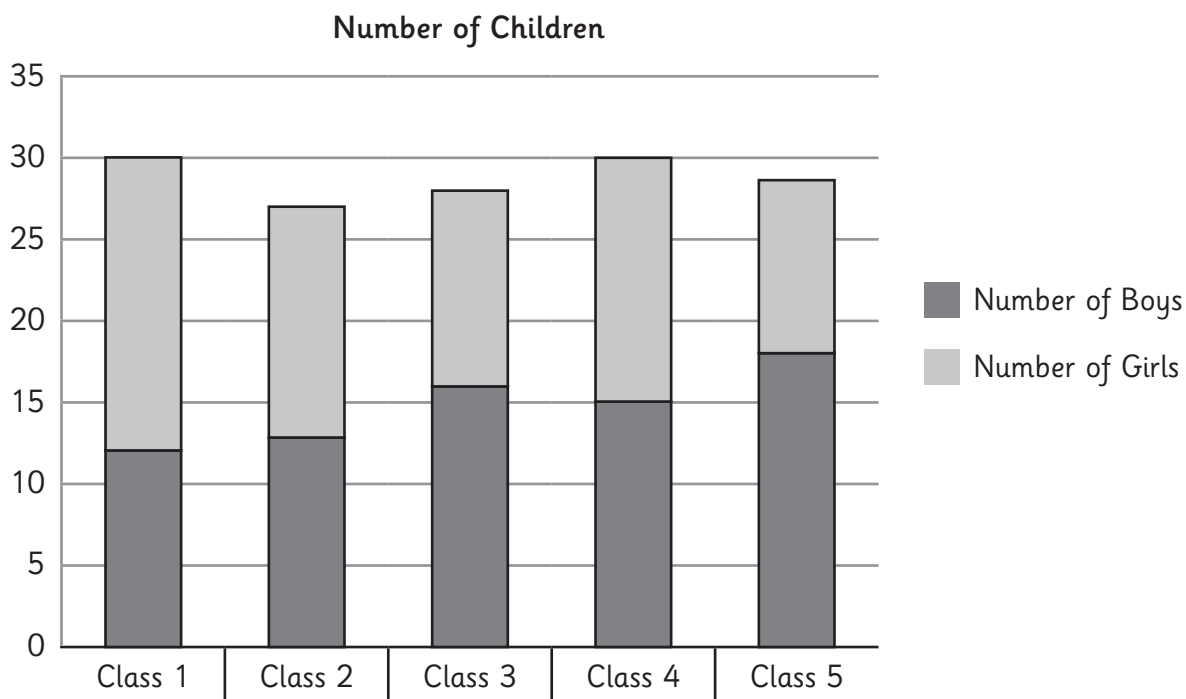
Name:

Date:

Maths Assessment Year 4 Term 3: Statistics

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

1. Here is a bar chart showing the numbers of boys and girls in classes in a school:



a) Which classes have the most children?

1 mark

b) Which class has the least number of girls?

1 mark

c) Complete this sentence: In class 3 there are boys and girls.

1 mark

Total for
this page

2. Year 4 collected information the number of books children had read over a term:

Number of books	Number of children
0	0
1	1
2	4
3	3
4	5
5	7
6	3
7	8
8	6
9	8
10	4
11	3
12	3
13	2
14	1

a) Use the data to complete the bar chart on the grid below. Make sure you label and choose a suitable scale for the vertical axis. Give the chart a title.



7 marks

Total for
this page

Answer these questions about the graph:






























b) How many children read 9 or more books?


1 mark

c) How many children read less than 6 books?

1 mark

3. Here is a pictogram showing the number of apples sold by the fruit shop in one week:

Monday	       
Tuesday	      
Wednesday	    
Thursday	   
Friday	    

 = 4 apples

a) How many apples were sold on Monday?

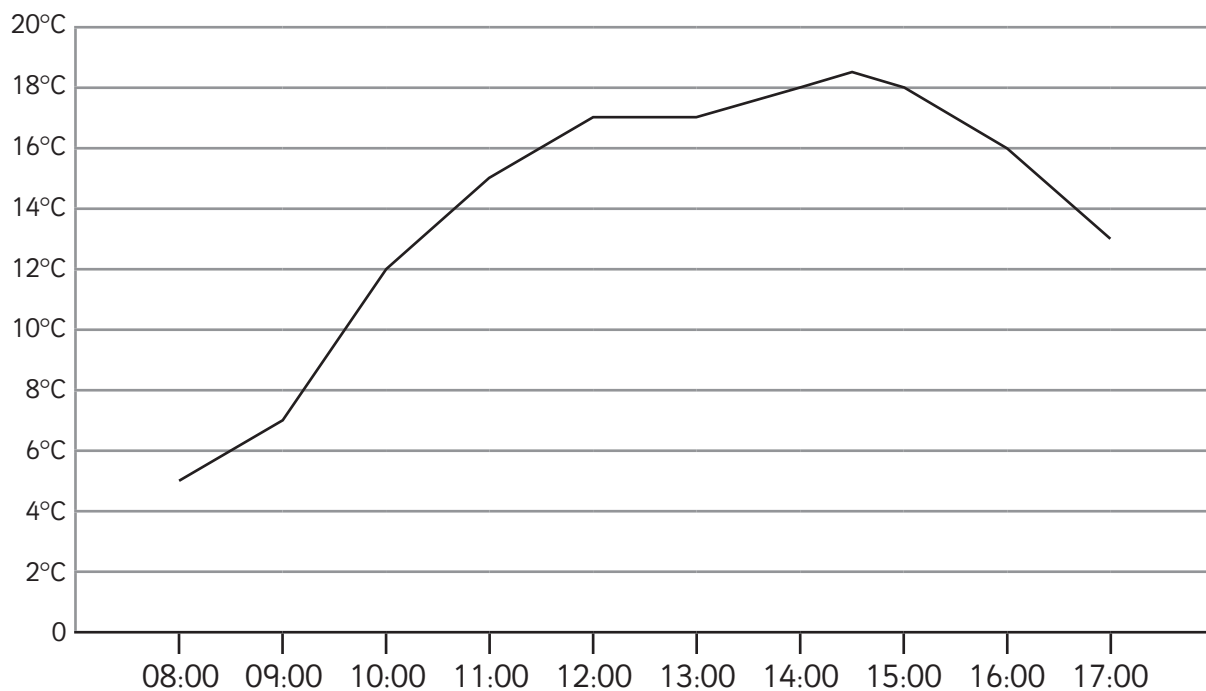
2 marks

b) Jack says that more apples were sold on Monday and Tuesday than in the rest of the week. Explain why he is correct.

2 marks

Total for this page

4. This line graph shows the temperature in the playground at a school:



a) At what time was the temperature 10°C?

1 mark

b) Between which times did the temperature stay the same?

to

2 marks

c) What was the temperature at 15:30?

1 mark

Total for
this page

question	answer	marks	notes																		
i. interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. ii. solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.																					
1a	Classes 1 and 4	1																			
1b	Class 5	1																			
1c	16 boys and 12 girls	1	Both must be correct for the mark. Note Columns are: <table><tr><td>Transport</td><td>Number of Boys</td><td>Number of Girls</td></tr><tr><td>Class 1</td><td>12</td><td>18</td></tr><tr><td>Class 2</td><td>13</td><td>14</td></tr><tr><td>Class 3</td><td>16</td><td>12</td></tr><tr><td>Class 4</td><td>15</td><td>15</td></tr><tr><td>Class 5</td><td>18</td><td>11</td></tr></table>	Transport	Number of Boys	Number of Girls	Class 1	12	18	Class 2	13	14	Class 3	16	12	Class 4	15	15	Class 5	18	11
Transport	Number of Boys	Number of Girls																			
Class 1	12	18																			
Class 2	13	14																			
Class 3	16	12																			
Class 4	15	15																			
Class 5	18	11																			
2a	Award 1 mark for each of the following: Suitable title Suitable label for both axes Suitable scale, equally spaced Bars equally spaced and equally drawn on the chart Award 3 marks for correctly calculating and drawing the bars. Bars drawn accurately for each set (3 marks).	up to 7 marks																			
2b	21	1																			
2c	20	1																			
3a	31 apples	2	2 marks for correct answer. 1 mark for correct method and only 1 mistake in calculation.																		
3b	57 sold on Monday and Tuesday and 51 sold in the rest of the week.	2	2 marks for a correct explanation. 1 mark for evidence of correct calculation and only 1 mistake in calculating or not using the correct calculations to explain.																		
4a	09:40	1	Allow 09:30 – 09:50																		
4b	12:00 to 13:00	2	1 mark for each.																		
4c	17°C	1																			
		Total 20																			