

Discussion Problems

Step 1: Interpret charts

National Curriculum Objectives:

Mathematics Year 4: (4S1) [Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs](#)

Mathematics Year 4: (4S2) [Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs](#)

About this resource:

This resource has been designed for pupils who understand the concepts within [this step](#). It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

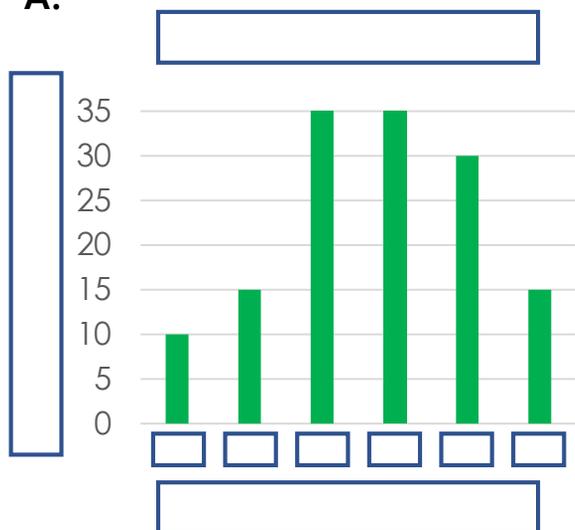
More [Year 4 Statistics](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

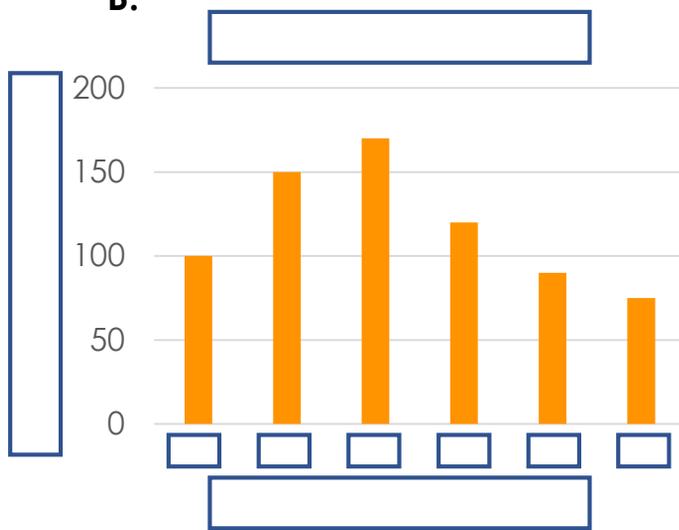
Interpret Charts

1. These bar charts have lost their labels. What could they show? Fill in the blanks with appropriate labels.

A.



B.



Use the word bank below to create your own questions about the bar charts.

same

greatest

least

scale

difference

DP

2. John says there is only one way to present the data below. Is he correct?

Explore and present the data in as many ways as you can.

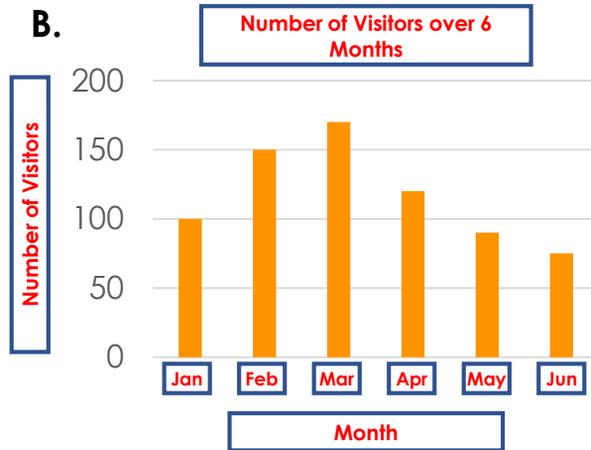
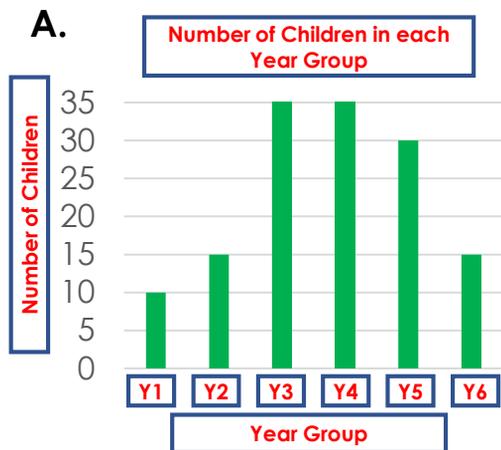
Favourite Animal	Number of Children
Monkey	4
Dog	12
Lion	5
Pig	6
Owl	2
Cat	3

DP

Interpret Charts

1. These bar charts have lost their labels. What could they show? Fill in the blanks with appropriate labels.

Various possible answers, for example:



Use the word bank below to create your own questions about the bar charts.

Various possible answers, for example:

1. Which year group has the least amount of children?
2. Which month had the greatest amount of visitors?
3. What is the difference between the number of children in Year 2 and Year 3?

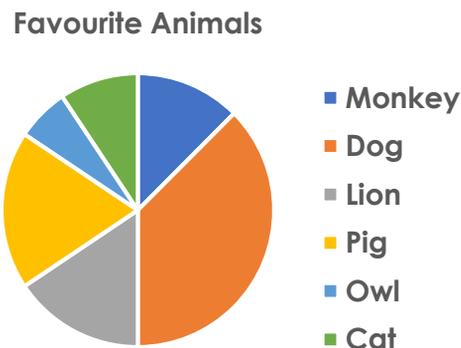
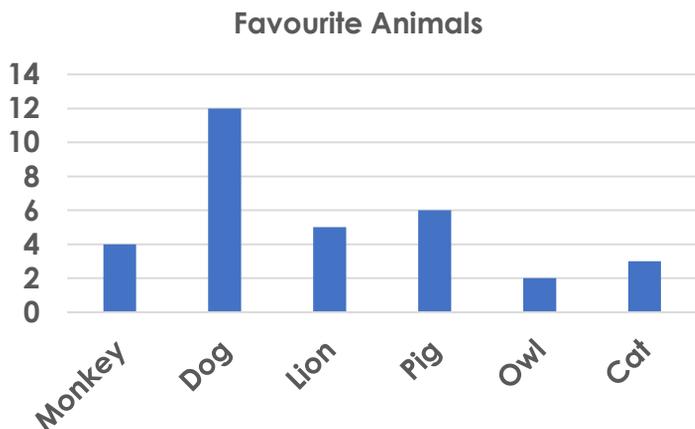
DP

2. John says there is only one way to present the data below. Is he correct?

Explore and present the data in as many ways as you can.

John is incorrect. There are many ways that the data could be presented, such as in a bar chart or a pie chart.

Various possible answers, for example:



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