# <u>Discussion Problems</u> Step 2: Bar Charts

Teaching note: For Q1, an A3 copy on card and scissors may be necessary.

### **National Curriculum Objectives:**

Mathematics Year 3: (3S1) <u>Interpret and present data using bar charts, pictograms and tables</u>

Mathematics Year 3: (3\$2) <u>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</u>

#### 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 3 Statistics resources.

Did you like this resource? Don't forget to review it on our website.



#### **Bar Charts**

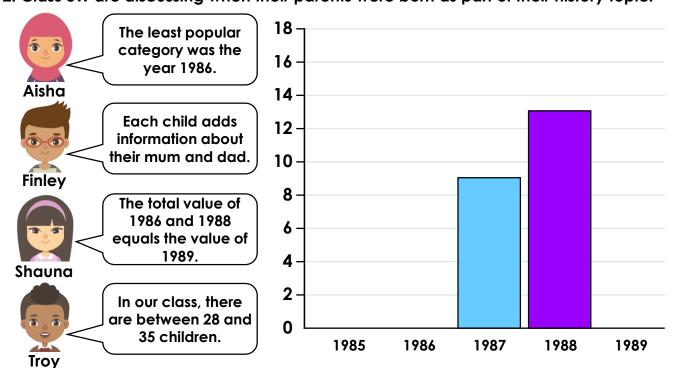
1. All three bar charts below have some missing information. Sort the cards below so that each bar chart has at least two cards which describes what is being shown. 35 14 70 30 12 10 50 20 40 8 15 6 10 4 2 10 The smallest value A bar chart to show The total number of This bar chart has used in this graph items that have children surveyed two odd and three has an even digit been recycled. was a multiple of 5. even values. sum.

The largest value is a multiple of 3.

Two categories in this bar chart have an identical value. A bar chart to show children's favourite hobbies.

A bar chart to show the length of adults' first names.

2. Class 3W are discussing when their parents were born as part of their history topic.



Using the clues above, explore how many of the children's parents could have been born in 1985, 1986 and 1989 to complete the bar chart.

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#### **Bar Charts**

1. All three bar charts below have some missing information. Sort the cards below so that each bar chart has at least two cards which describes what is being shown. 35 14 70 30 12 60 25 10 50 20 8 40 15 30 6 10 4 20 2 10 0 0 glass The total number of Two categories in A bar chart This bar chart has The largest to show children surveyed this bar chart have two odd and three value is a items that was a multiple of 5. an identical value. even values. multiple of have been

Various answers. One example of how the cards could be sorted is shown above.

bar chart to show

children's favourite

hobbies.

recycled.

The smallest value

used in this graph

has an even digit

sum.

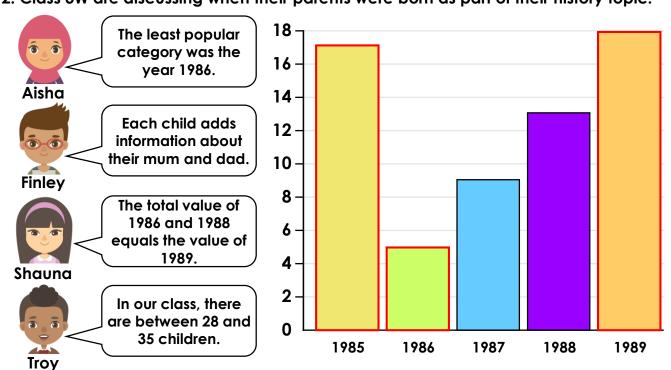
3.

A bar chart to show

the length of

adults' first names.

2. Class 3W are discussing when their parents were born as part of their history topic.



Using the clues above, explore how many of the children's parents could have been born in 1985, 1986 and 1989 to complete the bar chart.

Various answers. An example is shown above. 1985 = 17, 1986 = 5 and 1989 = 18.

