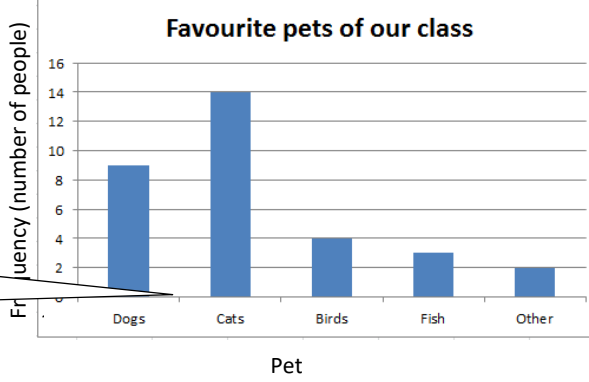
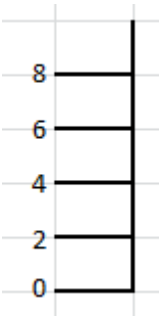
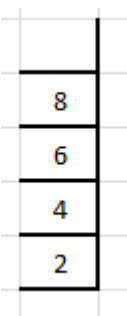


SUBJECT: **Bar charts – simplest and most commonly used chart to show data?**

KEY-WORDS: chart, data, horizontal, vertical, axes, frequency, scale

LINK-WORDS: data, scale

<p>NOTES</p> <p>A visual way to compare the frequency (how many) of categorised data. Easier to compare numbers visually than as a list: Dogs – 12, cats – 20, birds – 5, fish – 3, other - 2</p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; width: fit-content; margin: 10px auto;"> <p>For discrete data (not on a continuous scale) leave a gap. Looks best when twice the width of the bars.</p> </div>	<p>EXAMPLE</p>  <table border="1"> <caption>Favourite pets of our class</caption> <thead> <tr> <th>Pet</th> <th>Frequency (number of people)</th> </tr> </thead> <tbody> <tr> <td>Dogs</td> <td>12</td> </tr> <tr> <td>Cats</td> <td>20</td> </tr> <tr> <td>Birds</td> <td>5</td> </tr> <tr> <td>Fish</td> <td>3</td> </tr> <tr> <td>Other</td> <td>2</td> </tr> </tbody> </table>	Pet	Frequency (number of people)	Dogs	12	Cats	20	Birds	5	Fish	3	Other	2
Pet	Frequency (number of people)												
Dogs	12												
Cats	20												
Birds	5												
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Other	2												
<p>DO's</p> <p>Make sure that there is a title and BOTH axes are labelled – using the correct UNITS The “constant” or category is on the horizontal axis, and the variable (what changes), such as frequency (“how many” or “how often”) is on the vertical axis.</p> <p>Make sure the scales are correct – with consistent gaps.</p> <p>Keep the bar widths the same.</p> <p>Leave gaps between the bars when the data is discrete (takes set values or categories). Don't leave gaps between the bars if the data is continuous or is grouped.</p>	<p>DON'Ts</p> <p>Don't label the gaps on numbered a scale – label the “dashes” (boundaries).</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>✓</p> </div> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 5px; font-weight: bold; font-size: 2em;">NOT</div> </div> <div style="text-align: center;">  <p>✗</p> </div> </div> <p>Don't have a different sized gap between numbers on a scale – 0 to 1 is the same gap as 1 to 2! Don't over-use bar charts – there could be better ways to visually get your message across.</p>												

<p>RELEVANT SUBJECTS</p> <p>ALL. Anywhere where you want to visually show data.</p>	<p>EXAMPLES and LINKS</p> <p>https://flowingdata.com/2010/07/22/7-basic-rules-for-making-charts-and-graphs/</p>
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