


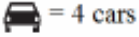

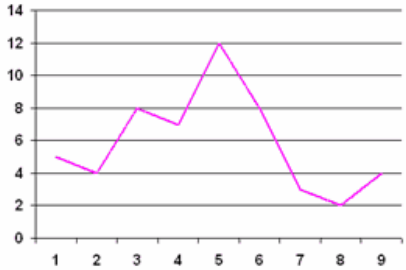


Core Knowledge

Topic/Skill	Definition/Tips	Example																					
1. Frequency Table	A record of how often each value in a set of data occurs .	<table border="1"> <thead> <tr> <th>Number of marks</th> <th>Tally marks</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>1</td> <td> </td> <td>7</td> </tr> <tr> <td>2</td> <td> </td> <td>5</td> </tr> <tr> <td>3</td> <td> </td> <td>6</td> </tr> <tr> <td>4</td> <td> </td> <td>5</td> </tr> <tr> <td>5</td> <td> </td> <td>3</td> </tr> <tr> <td>Total</td> <td></td> <td>26</td> </tr> </tbody> </table>	Number of marks	Tally marks	Frequency	1		7	2		5	3		6	4		5	5		3	Total		26
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2. Bar Chart	Represents data as vertical blocks. <i>x – axis</i> shows the type of data <i>y – axis</i> shows the frequency for each type of data Each bar should be the same width There should be gaps between each bar Remember to label each axis.																						
3. Types of Bar Chart	<p>Compound/Composite Bar Charts show data stacked on top of each other.</p> <p>Comparative/Dual Bar Charts show data side by side.</p>																						
4. Pie Chart	Used for showing how data breaks down into its constituent parts . When drawing a pie chart, divide 360° by the total frequency . This will tell you how many degrees to use for the frequency of each category. Remember to label the category that each sector in the pie chart represents.	<p>If there are 40 people in a survey, then each person will be worth $360 \div 40 = 9^\circ$ of the pie chart.</p>																					

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<p>5. Pictogram</p>	<p>Uses pictures or symbols to show the value of the data.</p> <p>A pictogram must have a key.</p>	<p>Black </p> <p>Red </p> <p>Green   = 4 cars</p> <p>Others </p>																																																
<p>6. Line Graph</p>	<p>A graph that uses points connected by straight lines to show how data changes in values.</p> <p>This can be used for time series data, which is a series of data points spaced over uniform time intervals in time order.</p>																																																	
<p>7. Two Way Tables</p>	<p>A table that organises data around two categories.</p> <p>Fill out the information step by step using the information given.</p> <p>Make sure all the totals add up for all columns and rows.</p>	<p>Question: Complete the 2 way table below.</p> <table border="1"> <thead> <tr> <th></th> <th>Left Handed</th> <th>Right Handed</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Boys</td> <td>10</td> <td></td> <td>58</td> </tr> <tr> <td>Girls</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total</td> <td></td> <td>84</td> <td>100</td> </tr> </tbody> </table> <p>Answer: Step 1, fill out the easy parts (the totals)</p> <table border="1"> <thead> <tr> <th></th> <th>Left Handed</th> <th>Right Handed</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Boys</td> <td>10</td> <td>48</td> <td>58</td> </tr> <tr> <td>Girls</td> <td></td> <td></td> <td>42</td> </tr> <tr> <td>Total</td> <td>16</td> <td>84</td> <td>100</td> </tr> </tbody> </table> <p>Answer: Step 2, fill out the remaining parts</p> <table border="1"> <thead> <tr> <th></th> <th>Left Handed</th> <th>Right Handed</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Boys</td> <td>10</td> <td>48</td> <td>58</td> </tr> <tr> <td>Girls</td> <td>6</td> <td>36</td> <td>42</td> </tr> <tr> <td>Total</td> <td>16</td> <td>84</td> <td>100</td> </tr> </tbody> </table>		Left Handed	Right Handed	Total	Boys	10		58	Girls				Total		84	100		Left Handed	Right Handed	Total	Boys	10	48	58	Girls			42	Total	16	84	100		Left Handed	Right Handed	Total	Boys	10	48	58	Girls	6	36	42	Total	16	84	100
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Links to comparing and interpreting information given in different diagrams, working out averages