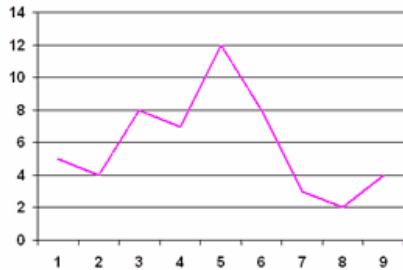
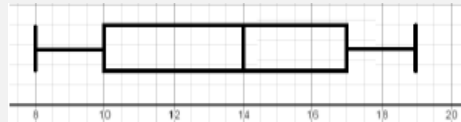


Core Knowledge

5. Pictogram	Uses pictures or symbols to show the value of the data. A pictogram must have a key .	Black    Red    Green   = 4 cars Others    																																																
6. Line Graph	A graph that uses points connected by straight lines to show how data changes in values. This can be used for time series data , which is a series of data points spaced over uniform time intervals in time order .																																																	
7. Two Way Tables	A table that organises data around two categories . Fill out the information step by step using the information given. Make sure all the totals add up for all columns and rows.	Question: Complete the 2 way table below. <table><tr><th></th><th>Left Handed</th><th>Right Handed</th><th>Total</th></tr><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></table> Answer: Step 1, fill out the easy parts (the totals) <table><tr><th></th><th>Left Handed</th><th>Right Handed</th><th>Total</th></tr><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>10</td><td>84</td><td>100</td></tr></table> Answer: Step 2, fill out the remaining parts <table><tr><th></th><th>Left Handed</th><th>Right Handed</th><th>Total</th></tr><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></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	10	84	100		Left Handed	Right Handed	Total	Boys	10	48	58	Girls	6	36	42	Total	16	84	100
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8. Box Plots	The minimum, lower quartile, median, upper quartile and maximum are shown on a box plot. A box plot can be drawn independently or from a cumulative frequency diagram.	Students sit a maths test. The highest score is 19, the lowest score is 8, the median is 14, the lower quartile is 10 and the upper quartile is 17. Draw a box plot to represent this information. 																																																
9. Comparing Box Plots	Write two sentences. 1. Compare the averages using the medians for two sets of data. 2. Compare the spread of the data using the range or IQR for two sets of data. The <u>smaller</u> the range/IQR, the <u>more consistent</u> the data. You must compare box plots in the context of the problem .	‘On average, students in class A were more successful on the test than class B because their median score was higher.’ ‘Students in class B were more consistent than class A in their test scores as their IQR was smaller.’																																																

Links to comparing and interpreting information given in different diagrams, working out averages