Topic: Representing Data


| 5. Pictogram | Uses pictures or symbols to show the value of the data. <br> A pictogram must have a key. | ```Black P Red \(\boldsymbol{B}_{\text {日 }}\) Green \(\boldsymbol{5}\) F=4 cars```  |
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| 6. Line Graph | A graph that uses points connected by straight lines to show how data changes in values. <br> 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 <br> Tables | A table that organises data around two categories. <br> Fill out the information step by step using the information given. <br> Make sure all the totals add up for all columns and rows. |  |
| 8. Box Plots | The minimum, lower quartile, median, upper quartile and maximum are shown on a box plot. <br> 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. <br> 1. Compare the averages using the medians for two sets of data. <br> 2. Compare the spread of the data using the range or IQR for two sets of data. <br> The smaller the range/IQR, the more consistent the data. <br> 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.' <br> 'Students in class B were more consistent than class A in their test scores as their IQR was smaller.' |

