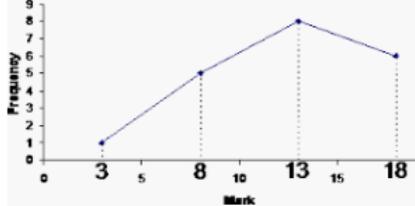


Year 8 Strand 6

Topic/Skill	Definition/Tips	Example																
Calculate the mean	The mean is the average of the numbers. Add the numbers together and divide the total by the number of numbers that you have added	Find the mean of 3, 4 and 5 $3+4+5=12$ $12/3 = 4$																
Median	The median is the average. Put the numbers in order and find the middle value of these numbers	Find the median of 2, 6, 9 These are already in order. The middle number is 6 - this is the median																
Mode	Mode is an average. The most frequent item that appears in a list is the mode.	Find the mode of these numbers: 2, 2, 2, 2, 2, 5 2 is the mode																
Range	The range is a measure of spread of numerical data. Range = max value - minimum value	Find the range of these numbers: 2, 4, 7, 8, 9 Range = $9 - 2 = 7$																
Discrete data	Data that can only take certain values. For example: the number of students in a class (you can't have half a student)																	
Continuous data	continuous data is quantitative data that can be measured. • it has an infinite number of possible values within a selected range e.g. temperature range. discrete data																	
Frequency polygon	A frequency polygon is another type of frequency distribution graph. In a frequency polygon , the number of observations is marked with a single point at the midpoint of an interval. A straight line then connects each set of points.																	
Tabulate	Data can be organised into a table to make analysis of data easier.	<table border="1"> <thead> <tr> <th></th> <th>Like Skateboards</th> <th>Do Not Like Skateboards</th> <th>Totals</th> </tr> </thead> <tbody> <tr> <th>Like Snowmobiles</th> <td>80</td> <td>25</td> <td>105</td> </tr> <tr> <th>Do not like Snowmobiles</th> <td>45</td> <td>10</td> <td>55</td> </tr> <tr> <th>Totals</th> <td>125</td> <td>35</td> <td>160</td> </tr> </tbody> </table>		Like Skateboards	Do Not Like Skateboards	Totals	Like Snowmobiles	80	25	105	Do not like Snowmobiles	45	10	55	Totals	125	35	160
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Like Snowmobiles	80	25	105															
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Survey	A Survey is defined as a research method used for collecting data from a pre-defined group of respondents to gain information and insights on various topics of interest	A data collection sheet is created. People are selected to gather data																
Questionnaire	a set of printed or written questions with a choice of answers, devised for the purposes of a survey or statistical study.	E.g. What sex are you? Male / female																
Stem and leaf diagrams	A Stem and Leaf Plot is a special table where each data value is split into a " stem " (the first digit or digits) and a " leaf " (usually the last digit).	<table border="1"> <thead> <tr> <th>stem</th> <th>leaf</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1, 1, 2, 2, 3, 4, 4, 4, 4, 5, 8</td> </tr> <tr> <td>1</td> <td>0, 0, 0, 1, 1, 3, 7, 9</td> </tr> <tr> <td>2</td> <td>5, 5, 7, 7, 8, 8, 9, 9</td> </tr> <tr> <td>3</td> <td>0, 1, 1, 1, 2, 2, 2, 4, 5</td> </tr> <tr> <td>4</td> <td>0, 4, 8, 9</td> </tr> <tr> <td>5</td> <td>2, 6, 7, 7, 8</td> </tr> <tr> <td>6</td> <td>3, 6</td> </tr> </tbody> </table> Key: 6 3 = 63 years old	stem	leaf	0	1, 1, 2, 2, 3, 4, 4, 4, 4, 5, 8	1	0, 0, 0, 1, 1, 3, 7, 9	2	5, 5, 7, 7, 8, 8, 9, 9	3	0, 1, 1, 1, 2, 2, 2, 4, 5	4	0, 4, 8, 9	5	2, 6, 7, 7, 8	6	3, 6
stem	leaf																	
0	1, 1, 2, 2, 3, 4, 4, 4, 4, 5, 8																	
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