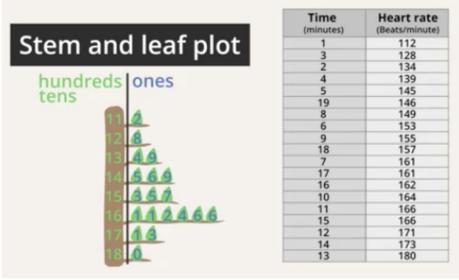
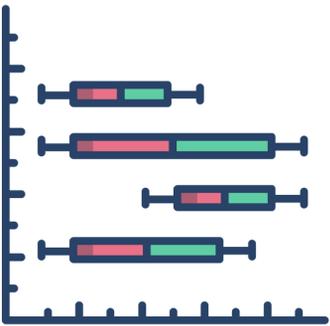
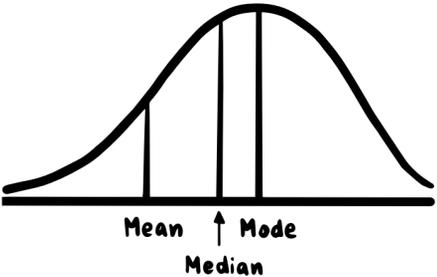




# The ESCAPE Projects

## Binogi Videos - Types of Plots and Spreadsheet

1. Stem and Leaf Plots; 2. Box and Whisker Plots; 3. Spreadsheets  
Bilingual Concept List

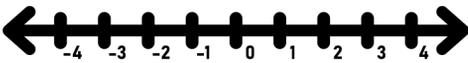
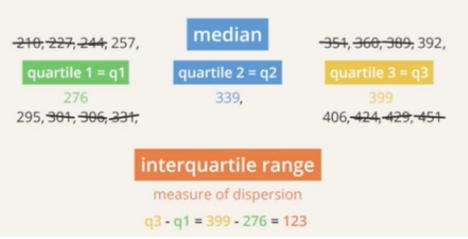
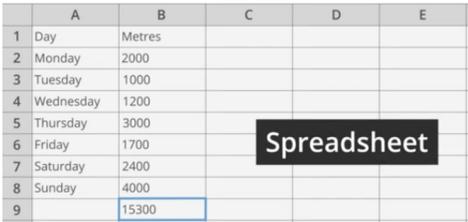
Mathematical Concepts & Definitions	Add Your Own Language(s) & Drawings!	Images & Examples																																						
<p><b>bar graph</b> A graph or chart that uses bars of different heights or lengths to show and compare different amounts.</p>																																								
<p><b>stem and leaf plot</b> A graph used to compare two sets of numbers where hundreds-tens are separated from ones by a vertical line.</p>		 <table border="1" data-bbox="1856 1482 2028 1741"> <thead> <tr> <th>Time (minutes)</th> <th>Heart rate (Beats/minute)</th> </tr> </thead> <tbody> <tr><td>1</td><td>112</td></tr> <tr><td>3</td><td>128</td></tr> <tr><td>2</td><td>134</td></tr> <tr><td>4</td><td>139</td></tr> <tr><td>5</td><td>145</td></tr> <tr><td>8</td><td>149</td></tr> <tr><td>6</td><td>153</td></tr> <tr><td>9</td><td>155</td></tr> <tr><td>18</td><td>157</td></tr> <tr><td>7</td><td>161</td></tr> <tr><td>17</td><td>161</td></tr> <tr><td>16</td><td>162</td></tr> <tr><td>10</td><td>164</td></tr> <tr><td>11</td><td>166</td></tr> <tr><td>15</td><td>166</td></tr> <tr><td>12</td><td>171</td></tr> <tr><td>14</td><td>173</td></tr> <tr><td>13</td><td>180</td></tr> </tbody> </table>	Time (minutes)	Heart rate (Beats/minute)	1	112	3	128	2	134	4	139	5	145	8	149	6	153	9	155	18	157	7	161	17	161	16	162	10	164	11	166	15	166	12	171	14	173	13	180
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<p><b>box and whisker plot</b> A graph that shows the minimum value, maximum value, and three quartiles of a set of data.</p>																																								
<p><b>median</b> The middle value when data is arranged in increasing order.</p>		 <p>Mean ↑ Mode Median</p>																																						
<p><b>range</b> The maximum value minus the minimum value in a set of data.</p>		<p>Range = highest value - lowest value</p> <p>0 = 1+0+0+2+0+0+0+1+2+0 = 37 37 - 0 = 37 = large spread</p> <p>1+2+3+0+2+3+1+2+2+3+0+3+0 = 43 43 - 0 = 43 = small spread</p>																																						



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Bilingual Concept List

Mathematical Concepts & Definitions	Add Your Own Language(s) & Drawings!	Images & Examples
<p><b>number line</b> A line in which points are matched to numbers. It stretches on forever in both directions and shows both positive and negative numbers as well as zero.</p>		
<p><b>quartile</b> One of three values that divide a set of data into four groups.</p>		
<p><b>interquartile range</b> The difference between two quartiles.</p>		
<p><b>spreadsheet</b> A program that is divided into cells, where you can do calculations within the cells and draw diagrams.</p>		
<p><b>cell</b> One of many small boxes that a spreadsheet is divided into.</p>		