

Maths Workout - Statistics & Probability

Topic 17 - Measures of Spread 1				
Target 1	Target 2	Target 3	Target 4	Target 5
<i>Calculate the range of a set of raw data</i>	<i>Revision: Calculate the median from a set of raw data</i>	<i>Calculate the interquartile range of a small set of raw data and a larger set of data in a frequency table</i>	<i>Construct a box plot from raw data</i>	<i>Read and interpret a box plot</i>
1. Calculate the range of a set of ordered raw data	1. Identify the median of an ordered data set: odd number of data items	1. Demo: Calculate the interquartile range of a set of raw data: data size even	1. Demo: Construct a box plot	1. Demo: Read and interpret a box plot
2. Calculate the range of a set of raw data	2. Identify the median of a data set by ordering: odd number of data items	2. Demo: Calculate the interquartile range of a set of raw data: data size odd	2. Construct a vertical box plot given min, Q1, Q2, Q3 and max values	2. Read and interpret a vertical box plot
3. Calculate the range of a set of raw data by sorting	3. Demo: Identify the median of a raw data set: even number of values	3. Calculate the interquartile range of a set of raw data	3. Construct two vertical box plots given min, Q1, Q2, Q3 and max values	3. Read and interpret two vertical box plots
4. Calculate the range of a set of raw data by sorting	4. Identify the median of a data set by ordering: even number of data items	4. Calculate the interquartile range of a set of raw data	4. Construct a horizontal box plot given min, Q1, Q2, Q3 and max values	4. Read and interpret a vertical box plot
5. Calculate the range of a set of raw data by sorting	5. Identify the median of a data set by ordering	5. Calculate the interquartile range of a set of raw data	5. Construct two horizontal box plots given min, Q1, Q2, Q3 and max values	5. Read and interpret two vertical box plots
6. Calculate the range from data in a bar chart	6. Speed Response: Identify a median and its matching data set	6. Calculate the interquartile range of a set of raw data	6. Construct a box plot from raw data	6. Read and interpret a horizontal box plot
7. Speed Response: Identify a matching range and data set		7. Demo: Calculate the interquartile range from a frequency table using $Q1 = (n+1)/4$, $Q3 = 3(n+1)/4$	7. Construct two box plots from raw data	7. Read and interpret two horizontal boxplots
8. Speed Response: Identify a matching range and data set		8. Calculate the interquartile range from a frequency table	8. Construct a box plot from a frequency table	8. Read and interpret two horizontal boxplots
		9. Calculate the interquartile range from a frequency table	9. Construct a box plot from a frequency table	9. Read and interpret two horizontal boxplots
		10. Calculate the interquartile range from a frequency table	10. Construct a box plot from a frequency table	10. Read and interpret two horizontal boxplots