Year 10 Mathematics Learning Journey: Unit 13 - Delving into Data

Step 1: Population and samples
Why do statisticians take samples rather than interview the whole population?

Step 2: Primary and secondary data
Why might some secondary sources of data be biased?

Step 3: Frequency tables and polygons
Given the endpoints of a class interval, how do you work out the midpoint?

Step 5: Line and bar charts
What's the difference between a multiple bar chart and a composite bar chart?

Step 7: Criticise charts and graphs
Why might someone want to use a graph to make differences look bigger / smaller?

Step 8 (R): Averages from a list
Compare the means of the first five multiples of 3 and the first five square numbers.

Step 9 (R): Averages from a table
How do you work out the midpoint of a class interval?

Step 10: Time series graphs
How can you identify a general trend on a time series graph?

Step 11: Stem and leaf diagrams
How do we work out where the median is in a stem and leaf diagram?

Step 12: Comparing distributions
If the averages of two data sets are similar but the ranges are very different, what does that tell you?

Step 13 (R): Scatter Graphs
How can you tell if a correlation is positive or negative?

Step 14 (R): Lines of best fit
Does the line of best fit always have to go through the origin?

Step 15: Extrapolation
When might is be appropriate to extrapolate beyond the range of given values?

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