**Mean, median, mode**

**Introduction:** This task involves finding the mean, medium and mode of a set of discrete data and representing the distribution of the data.

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| **Consider the set { 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 }**  **Part 1**  Randomly select 20 numbers from this set. Some numbers will be selected several times.  Construct a dot plot for the randomly selected set of 20 numbers and find the mean, median and mode.  Describe the shape of this dot plot.  **Part 2**  Select 20 numbers from the set {0, 1, 2, 3, 4, 5, 6, 7, 8, 9} so that the mean is less than the median, which is less than the mode.  Some experimentation with different combinations will be required.  Construct a dot plot for this selected set of 20 numbers and clearly identify the mean, median and mode.  Describe the shape of this dot plot. |