

## Data Set Worksheet

1) There is a 70% chance of rain. Match whether these statements reflect the mean, mode, or median. Justify your thinking:

- i) The chance of rain is greater than 50%.
- ii) The chance of rain is higher than the average.
- iii) A lot of days have the same chance of rain.
- iv) 70% chance of rain occurs often for this time of year.

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2) A construction worker counted the number of floors of the apartment buildings in their neighbourhood.

8, 6, 6, 4, 16

- a) Find the mean, median, and mode of this data set.
- b) The 6 story building is replaced by a skyscraper that will be 50 floors tall. What happened to the mean, median, and mode? Which value changed the most?
- c) Which measure of central tendency best describes the number of floors for apartment buildings in this neighbourhood? Justify your thinking.

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3) These values are the heights for 10 various buildings.  
127.4 m, 121.5 m, 104.2 m, 101.0 m, 98.5 m, 83.6 m, 98.3 m,  
92.4 m, 92.4 m, 92.4 m

Calculate mean, median, and mode, and then determine the measure of central tendency that best describes conclusions you make about this data. Justify your thinking.