

UNIT 18 *Sampling*

Activities

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18.1 Sample Size

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Sample Size

Consider the members of your class to be a population from which you will take samples of different sizes in order to estimate the average height of members of your class.

1. Create a table like the one below:

<i>No.</i>	<i>Height (cm)</i>
1	167
2	162
3	179

You do not need to record who has each height, as long as you have the heights for every member of the class.

2. Calculate the mean height for the population.
3. Take several samples of different sizes and calculate the mean height for each sample. Produce a table like the one below.

<i>Sample No.</i> <i>Sample Size</i>	1	2	3	4	5
2					
5					
10					
15					

Table of the Mean Heights for Each Sample

4. Comment on the results that you obtain and decide what is the smallest size sample you could use in order to provide a reasonable estimate of the average height of the population.