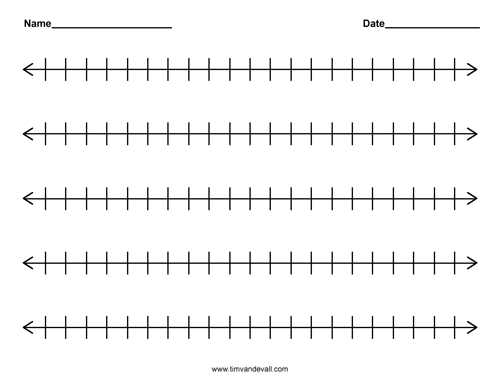
Statistical Reasoning Name:

Activity 3.1 – *Where do I stand?*

Record the height, in inches, of each student in class in the table below.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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|  |  |  |  |  |  |  |  |  |  |  |

1) Make a dotplot of the data.



2) Count the number of people in the class that have heights **less than or equal to** your height. Record this value below.

3) What percent of the students in the class have heights equal to or less than yours? This is your *percentile* in the distribution of heights.

4) Calculate the mean and standard deviation of the class’s height distribution.

5) Where does your height fall relative to the mean: above or below? How far above or below the mean is it?

6) How many standard deviations above or below the mean is your height? This is the *z-score* corresponding to your height.