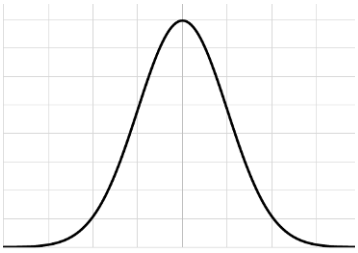
# Vocabulary: Populations and Samples

## Vocabulary

| Value | Frequency |
|---|---|
| 1 | 3 |
| 2 | 1 |
| 3 | 1 |
| 4 | 3 |
| 5 | 2 |

- Frequency distribution – a list, table, or graph that illustrates how many times each value occurs in a data set.
    - For example, the table at right shows the frequency distribution for the data set: 1, 1, 1, 2, 3, 4, 4, 4, 5, 5.

- Normal distribution – a theoretical probability distribution that is bell-shaped and symmetric about its mean.
    - The normal distribution is also known as the Gaussian distribution.
    - The bell shape indicates that results near the mean are likely, while results farther from the mean are less likely (but not impossible).



**Normal distribution**

- Population – an entire group of objects or individuals.
- Sample – a part of a population selected to represent the entire population.

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