Grade 12 Math of Data Management
MDM4U

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Chapter 1

Normal Distribution

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1.1.1   Definitions

Definition 1.1.1 (Normal Distribution)

The properties of normal distributions can be described as this:

1. *Graphical displays are mound-shaped histograms that are also* **Bell-Shaped**

2. *The MEAN, MEDIAN and MODE fall on the line of symmetry*

3. *Denoted by the notation $X \sim N(\mu, \sigma^2)$ where μ is the mean and σ is the standard deviation*

4. *Modelled by a* **NORMAL CURVE** *where the curve passes through the midpoint of the top of each bar of the histogram of the data.*

5. *The stadnard normal curve has a mean of 0 and a standard deviation of 1*