- μ : Population mean (mu).
- σ : Population standard deviation (sigma).
- π : Population proportion.
- $\hat{\mu}$: An estimate of the parameter μ .
- \bar{x} : A statistic and an estimate (for STAT110/115 paper only).
- Proportion: Fraction of one quantity when compared to the whole.
- Ratio: Fraction given by one quantity over another. **N.B.**, both quantities have the same units.
- Rates (the difference between rates and ratio): Rates are like ratios for quantities with different units.
- Random variables are described by: Probability distributions.
- Observed values of random variables are: Data.
- Difference between random variables and observed/realised value: Random variables: unknown quantity varies unpredictably; Observed/realised value: got the actual quantity of the unknown quantity.
- Types of variables:
 - Continuous can be expressed on a continuous scale in which every value is possible.
 - Discrete can be in one-to-one correspondence with the counting numbers.
 - Categorical restricted to one of a set of categories. For example 'Heads' or 'Tails'.
 - * type 1: 0 1 binary, A/B/O/AB more than two
 - * type 2: A/B/O/AB nominal, pass/fail ordinal
- Types of censored data: Right censored, Left censored, Interval-censored **N.B.**, censored data are categorised by two variables: the censor type and the censoring point or interval.
 - Right censored: The true value is known to be larger than a recorded value.
 e.g., we know that someone lived until at least 31 Dec 2017. 50+
 - Left censored: The true value is known to be smaller than a recorded value. e.g., we know that a measurement is less than a known limit of detection. 10-
 - Interval-censored: The true value is known to lie between two values.
 e.g., we know the date of infection with HPV is after a negative test and before a positive test 2 years later.