**Combinatorics, Probability, Statistics**

Binomial theorem
Binomial coefficient
   – "n choose k"
Box plot
Coin flipping = coin tossing
Combination
   – with repetition
Conditional probability
Critical value (in a hypothesis test)
Cumulative Probability Distribution Function
Discrete probability
Distribution
   – normal
   – binomial
Distributive function
Expected value
Experiment
Event
   - dependent
   - independent
   - certain → certainty (*n.*)
   - impossible → impossibility (*n.*)
   - disjoint events = mutually exclusive events
Factorial
Frequency
Hypothesis testing
   – null hypothesis
   – alternative hypothesis
   – p-value
   – significance level
Mean = arithmetic mean (*less precisely* average)
Median
Mode
Outcome
   - possible
   - favourable
   - equally likely
Outlier
Parameter
Permutation
Population
Probability distribution
Probability density function
Quartile
   – upper / lower quartile

- – inter-quartile range

Quantile

Random variable

r-arrangement (sometimes called 'variation')

Sample space = event space

Sample (*n.*, *v.*) → sampling

- – random sample

Standard deviation

Variable

- – random
- – continuous × discrete
- – quantitative
- – ordinal
- – qualitative
- – dependent × independent

Variance