Data Management Notes Intro to Statistics

Qinghao Hu

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Chapter 1

Unit 1

MDM4U Qinghao Hu

1.1 Lecture 1

1.1.1 The Fundamental or Multiplicative Counting Principle

If a task is made up of *several stages*, then the number of choices is the **product** of the number of possibilities at each stage.

1.1.2 Additive Counting Principle

In a situation with actions that cannot occurred at the "same time" than the number of possibilities is the sum of the possibilities of all the actions

!!! Remember, 0! = 1

1.2 Lecture 1.2

A permutation is an ARRANGEMENT of items in a definite order.

$$nPr = \frac{n!}{(n-r)!}$$