

Regents Park Publishers

Data Analytics



T1LM 6

v.2

**Counting
Methods**

Counting

Permutations: is applied to find the number of possible outcomes where there is only one group of objects. **The order of outcomes is important.**

Combinations: If the **order of the selected objects is not important**, any selection is called a combination:

Permutations Example

BMS Inc. has eight screw machines but only three spaces available in the production area for the machines. In how many different ways can the eight machines be arranged in the three spaces available? The order of this arrangement is important.

Excel Path:

Formulas to More Functions to Statistical to PERMU

Enter: Number: 8

Enter: Chosen: 3

Answer: 336

Combinations Example

The Grand 16 movie theatres uses teams of three employees to work the concession stand each evening. There are seven employees available to work each evening. How many different teams can be scheduled to staff the concession stand? The order is not important.

Excel Path:

Formulas to Math & Trig to COMBIN

Enter: Number: 7

Enter: Chosen: 3

Answer: 35

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End