

Symbols

Ω	Omega
$\cup$	Union/Or
$\cap$	Intersection/And
'	Compliment (Not)
$\in$	Element Of
$\notin$	Not an Element Of
$\approx$	Tilde Operator, Similar to
$\cong$	Approximately Equal to
$\equiv$	Identical to

Sample Spaces

The set of all possible outcomes	Ω
A subset of the sample space	$A \subseteq \Omega$
Listing a sample Space	$\Omega = \{H, T\}$

Rules of a Probability Function

1. $P(\Omega) = 1$
2. $P(A) \geq 0$ for all $A \subseteq \Omega$
3. $P(A \cup B) = P(A) + P(B)$ if A and B are disjoint ($A \cap B = \emptyset$)



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 Page 1 of 1.

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