

Compound Events Vocabulary

OR
AND

Compound Events	combines two or more outcomes/events, using the word "and" or the word "or"	Symbolically
Mutually Exclusive	one event with a choice of outcomes that have nothing in common	$P(A \text{ or } B)$ $= P(A) + P(B)$
Inclusive / Overlapping	one event with a choice of outcomes that have something in common	$P(A \text{ or } B)$ $= P(A) + P(B) - P(A \text{ and } B)$
Independent	two events when the outcome of one event has no effect on the outcome of the other	$P(A \text{ and } B)$ $= P(A) * P(B)$
Dependent	two events when the outcome of one event affects the outcome of the other	$P(A \text{ and } B)$ $= P(A) * P(B A)$
Conditional Probability	the probability that event B will occur given that event A has occurred	$P(B A)$