**Conditional probability:**

Conditional probability is defined as the likelihood of an event or outcome occurring, based on the occurrence of a previous event or outcome.

p(A|B) is the probability of event A occurring, given that event B occurs.

It is often stated as the probability of B given A and is written as P(B|A), where the probability of B depends on that of A happening.

**Binomial Distribution Formula:**

P(B|A) =

P = Probability

A = Event A

B = Event B

**Summary**

Probability looks at the likelihood of one event occurring.

Conditional probability looks at two events occurring in relation to one another. It looks at the probability of a second event occurring based on the probability of the first event occurring.