

# Conditional Probability: Fundamentals: Takeaways



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## Concepts

- The probability of an event  $A$  can be updated based on the occurrence of another event. The probability that  $A$  occurs *given* that  $B$  occurs is denoted as  $P(A|B)$  and is called the **conditional probability** of  $A$  with the condition that  $B$  occurs.
- We can calculate  $P(A|B)$  using a formula written in terms of set cardinals:
- Another way to calculate  $P(A|B)$  consists of using a formula written in terms of probabilities (this is useful when we only know probabilities):
- Both formulas above lead to the same result:

## Resources

- [An easy intro to some basic conditional probability concepts](#)
- [A more technical convey of conditional probability](#)



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