

Task 7 - Probabiliy

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1 Task 7 - Probability

Statistics and probability are different but strongly related fields in mathematics.

Probability	Statistics
In probability we make predictions about future events based on models or causes that we assume.	Where as in statistics we analyze the data from past events to infer what that models and causes could be.
In one you are predicting data and	In the other you are using data to predict.

- There is also almost and opposite relation in these two.

1.1 Properties

- $P(A) = 1 - P(\neg A)$
 - Opposite events
- $P(A, B) = P(A) \cdot P(B)$
 - Composite events