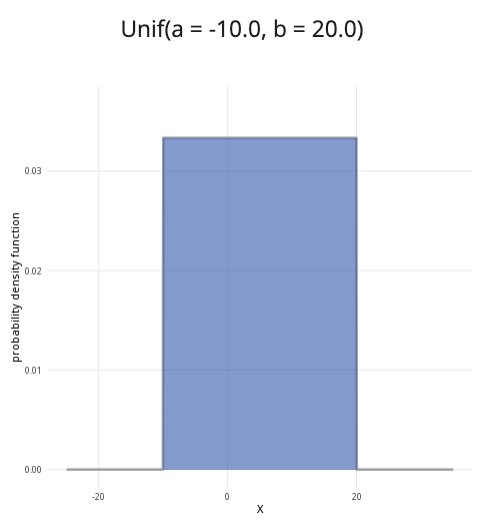
Factsheet: Continuous uniform distribution

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Summary

A factsheet for the continuous uniform distribution.



An example of the continuous uniform distribution with and .

**Where to use:** The continuous uniform distribution is used when all continuous values in the interval to are equally likely. The random variable represents the outcome.

**Notation:** or .

**Parameters:** Two real numbers , where

* is the minimum value of an outcome,
* is the maximum value of an outcome.

| Quantity | Value | Notes |
| --- | --- | --- |
| **Mean** |  |  |
| **Variance** |  |  |
| **PDF** |  |  |
| **CDF** |  |  |

**Example:** A machine from Cantor’s Confectionery is programmed to chop long candy bars into pieces, each with a length between 30 millimetres to 50 millimetres. Due to variations in the machine, each continuous value between this interval is equally likely. This can be expressed as . It means 30 is the minimum value and 50 is the maximum value, where all continuous values of for are equally likely.

# Further reading

This interactive element appears in [Overview: Probability distributions.](../overviews/o-distributions.qmd)

## Version history

v1.0: initial version created 08/25 by tdhc.

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