| Q | \% | \% | 5 | ${ }^{\circ}$ | © | 5 | ๕ | 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

The Marlo diagram is an innovative way to visualize logical reasoning. With minimal training you will be able to easily represent and solve syllogisms and propositional logic in an intuitive and innovative way.


First use the "Creation" area to generate the diagrams of the premises. We recommend you start by exploring the "Practice with exercises" area.



All primates are mammals


The subject appears in the center of what we call the propositional model, which may or may not be divided, and the predicate will appear to one side of the model and often outside the subject model as well.
 premises, that there are mammals that are not primates.


There are four types of elementary propositions.



Being even is equivalent to being divisible by two.
Only among the English there are Londoners.



Once the premises are represented, use the Conversion and Transformation operations to match the subject of their diagrams.


If it's not a mammal,


Transfomation

it's not a primate.


Conversion

Some that are not mammals are vertebrates.

We recommend you start by exploring the "Practice with exercises" area.


Diagrams with the same subject can be synthesized to draw conclusions.
Use the "Inference" operation
Inference
Diag. 1:
Diag. 2:

Infer


We recommend you start by exploring the "Practice with exercises" area.


Convert the diagram obtained by inference to present the conclusion from the term you prefer.

Note that in diagram 5 only part of V is necessarily associated with $\neg \mathrm{P}$. That is why we represent in 6 a part of V as indeterminate.

Conversion Diagram: Literal:
Conver


We recommend you start by exploring the "Practice with exercises" area.


## Extraction

Diagram:
Literal:

## Extract

Finally, delete the middle term to obtain a clearer conclusion. Use the Extraction operation.


D6: Conv(D5, v)


Some vertebrates are not primates
Some vertebrates may be primates
There could be non-vertebrate animals that are not primates.


In summary: 10 Create premises, 20 Match the middle term by conversion and transformation, 30 Synthesize by inference, 40 Convert and 50 Symplify by extraction.


Proposition Conversion Transformation Conversion



