

Exercise Introduction into ObjectLogic

Exercise

Represent the following in ObjectLogic.

- Every woman is a person
- Every man is a person
- A person has exactly one father, who is of class man
- A person has exactly one mother, who is of class woman
- A person can have daughters who are of class woman
- A person can have sons who are of class man
- Abraham is of class man
- Isaac is of class man
- Sarah is of class woman
- Isaac has a father who is Abraham
- Isaac has a mother who is Sarah
- Abraham has a son who is Isaac
- Isaac is of class man and has a father who is Abraham, who is a man.
- Isaac has a mother who is sarah, which is a woman

- Every mother is an ancestor
- Every father is an ancestor
- The father of an ancestor is an ancestor
- The mother of an ancestor is an ancestor

- If a man A has a father B, then B has A as a son.
- If a man A has a mother B, then B has A as a son.
- If a woman A has a father B, then B has A as a daughter.
- If a woman A has a mother B, then B has A as a daughter.

- Who is that woman, where her son has Abraham as father?

