

Identity Theory Jigsaw Lesson
Workgroup: At Least

I. Examine the following translations:

1. There is at least one applicant for the job. $(\exists x)Ax$
2. There are at least two applicants for the job. $(\exists x)(\exists y)[Ax \cdot Ay \cdot x \neq y]$
3. There are at least three applicants for the job. $(\exists x)(\exists y)(\exists z)[Ax \cdot Ay \cdot Az \cdot x \neq y \cdot x \neq z \cdot y \neq z]$
4. There are at least two odd prime numbers. $(\exists x)(\exists y)(Ox \cdot Px \cdot Nx \cdot Oy \cdot Py \cdot Ny \cdot \sim x=y)$
5. There is at least one mouse bigger than Rene. $(\exists x)(Mx \cdot Bxr)$
6. There are at least two mice bigger than Rene. $(\exists x)(\exists y)(Mx \cdot My \cdot Bxr \cdot Byr \cdot x \neq y)$

II. Try these:

7. There are at least three mice bigger than Rene.
8. There are at least four students in the course. (Sx, Cx)

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