Identity Theory Jigsaw Lesson Work Group: At Least

I. Translation key:

b: Berkeley; c: *The Critique of Pure Reason*; d: Descartes; f: Frege Cx: x is a coherentist; Ix: x is an idealist; Mx: x is a materialist; Px: x is a philosopher Mxy: x is read more widely than y; Rxy: x respects y; Sxy: x studies y; Wxy: x wrote y

- II. Examine the translations below, which use the key in I.
 - 1. At least one materialist respects Berkeley.

$$(\exists x)(Mx \bullet Rxb)$$

2. At least two materialists respect Berkeley.

$$(\exists x)(\exists y)(Mx \bullet Rxb \bullet My \bullet Ryb \bullet x \neq y)$$

3. There are at least three materialists who respect Berkeley.

$$(\exists x)(\exists y)(\exists z)(Mx \bullet Rxb \bullet My \bullet Ryb \bullet Mz \bullet Rzb \bullet x \neq y \bullet x \neq z \bullet y \neq z)$$

4. At least two idealist philosophers respect each other.

$$(\exists x)(\exists y)(Ix \bullet Px \bullet Iy \bullet Py \bullet x \neq y \bullet Rxy \bullet Ryx)$$

5. At least three coherentists respect some book by Descartes.

$$(\exists x)(\exists y)(\exists z)\{Cx \bullet Cy \bullet Cz \bullet x \neq y \bullet x \neq z \neq y \neq z \bullet (\exists w)[(Bw \bullet Wdw) \bullet Rxw] \bullet (\exists w)[(Bw \bullet Wdw) \bullet Rxw]\}$$

$$(\forall x)(\exists y)(\exists z)\{Cx \bullet Cy \bullet Cz \bullet x \neq y \bullet x \neq z \neq y \neq z \bullet (\exists w)[(Bw \bullet Wdw) \bullet Rxw]\}$$

- III. Try these, using the key in I.
 - 6. At least two philosophers are read more widely than Frege.
 - 7. There are at least three philosophers who are read more widely than Frege.
 - 8. At least four idealists study The Critique of Pure Reason.