

Identity Theory Jigsaw Lesson  
Work Group: Only

I. Translation key:

a: Andy; d: Dwight; g: Angela; j: Jim; m: Michael; o: the Office; p: Pam; t: Toby  
Ax: x is an accountant; Mx: x is a regional manager; Rx: x is a raise; Sx: x is a salesperson  
Dxy: x despises y; Ixy: x is in y; Lxy: x loves y  
Gxyz: x would give y to z

II. Examine the translations below, which use the key in I.

1. Jim loves Pam.

$Ljp$

2. Jim only loves Pam.

$Ljp \bullet (x)(Ljx \supset x=p)$

3. Only Andy and Dwight love Angela.

$Lag \bullet Ldg \bullet (x)[Lxg \supset (x=a \vee x=d)]$

4. There is only one accountant in the office.

$(\exists x)\{Ax \bullet Ixo \bullet (y)[(Ay \bullet Iyo) \supset y=x]\}$

5. Only Michael would give Angela a raise.

$(\exists x)(Rx \bullet Gmxa) \bullet (x)[Rx \supset (y)(Gyxa \supset y=m)]$

III. Try these, using the key in I.

6. Michael is the only regional manager.

7. There is only one salesperson who despises Toby.

8. Only Dwight and Jim are salespeople in the office.