Identity Theory Jigsaw Lesson
Work Group: Superlatives

I. Translation key:

c: Creed; d: Dwight; j: Jim; m: Michael; n: Jan; p: Pam; r: the Scranton branch; u: the Utica
     branch
Ax: x is an accountant; Bx: x is a branch; Ex: x is an employee; Ox: x is an office; Sx: x is a
     salesperson
Bxy: x is bigger than y; Hxy: x has y; Ixy: x is in y; Mxy: x is smaller than y; Nxy: x is nicer
     than y; Zxy: x is lazier than y
Nxyz: x is nearer than y to z.

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

1. Jim is a nicer salesperson than Dwight.

   Sj • Sd • Njd

2. Jim is the nicest salesperson.

   Sj • (x)[(Sx • x≠j) ⊃ Njx]

3. Utica is the smallest branch.

   Bu • (x)[(Bx • x≠u) ⊃ Mux]

4. Creed is the laziest employee in the office.

   Ec • Ico • (x)[(Ex • Ixo • x≠c) ⊃ Zcx]

5. Michael is the employee who has the biggest office.

   Em • (∃x){(Ox • Hmx) • (y){(Ey • y≠m) ⊃ (z)[(Oz • Hyz) ⊃ Bxz)]}}

III. Try these, using the key in I.

6. Scranton is the biggest branch.

7. Utica is the nearest branch to the Scranton branch.

8. Some employee is the biggest accountant in the office.