

Identity Theory Jigsaw Lesson  
Work Group: Only

## I. Translation key

b: Berkeley; d: Descartes; h: Hume; k: Kant; l: Locke; n: Nietzsche; s: Spinoza;  
 Ex: x is an empiricist; Px: x is a philosopher; Rx: x is a rationalist  
 Lxy: x likes y; Mxy: x is read more widely than y; Pxy: x plays billiards with y; Rxy: x respects y

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

1. Nietzsche respects Spinoza

$$Rns$$

2. Nietzsche respects only Spinoza

$$Rns \cdot (\forall x)(Rnx \supset x=s)$$

3. Only Nietzsche doesn't like Nietzsche.

$$\sim Lnn \cdot (\forall x)(\sim Lxn \supset x=n)$$

4. Only Locke plays billiards with some rationalist who is read more widely than Descartes.

$$(\exists x)(Rx \cdot Mxd \cdot Plx) \cdot (\forall x)[(Rx \cdot Mxd) \supset (\forall y)(Pyx \supset y=l)]$$

5. Only Kant is read more widely than Descartes and Hume.

$$Mkd \cdot Mkh \cdot (\forall x)[(Mxd \vee Mxh) \supset x=k]$$

## III. Try these, using the key in I.

6. Nietzsche is the only philosopher read more widely than Descartes.

7. Kant is the only empiricist who is also a rationalist.

8. Only Locke and Berkeley are empiricist philosophers respected by some rationalist philosopher.