Ling 001: Homework 6  
Fall 2004

Answer the following questions, using the back of the page if necessary. *(1 point each unless otherwise noted)*

1) Broca’s Aphasia is typically associated with lesions found in Brodmann Areas _____ and _____.

2) The Angular Gyrus and Supramarginal Gyrus are cortical areas that have Brodmann numbers _____ and _____.

3) The article by Kaan and Swaab argues that Broca’s Area is not necessarily the seat of syntax on the grounds that
   (a) there is never a correlation between having a lesion in Broca’s Area and having a syntactic deficit.
   (b) Broca’s area is generally active when processing load increases.
   (c) Wernicke’s area is active much more than Broca’s Area in tasks involving syntax.

4) The *temporal pole* has the Brodmann number _____.

5) What kind of activation is reported in comparisons of sentence reading versus word lists? How is this relevant to the question of whether Broca’s Area is the seat of syntax? *(2 points)*

6) *Jabberwocky* sentences like *The mumphy folofel fonged the trecori* are used in brain-imaging experiments because
   (a) it is important for subjects to be relaxed and to have a good time
   (b) the syntax of such sentences differs markedly from the syntax of normal sentences
   (c) the syntactic violations found in such examples trigger increased syntactic processing
   (d) using non-words in this kind of sentence reduces semantic processing but retains syntactic structure

7) Consider this dialogue, where an investigator is speaking to a child who calls his inflated plastic fish a *fis* [fls].

   Adult: This is your *fis*?
   Child: No, my *fis*. (Rejects repeated imitations.)
   Adult: Oh, that is your *fish*.
   Child: Yes, my *fis*.

   Does the child have the relevant phonemic contrast? Explain, relating this to other patterns of children’s errors.

8) A: What time is it?
    B: My cat’s breath smells like cat food.

   In this dialogue, there is clearly something is strange about B’s response. How would we describe this strangeness in terms of Gricean conversational maxims?

9) Children occasionally use verbs in ways that are surprising from the perspective of the adult grammar:
   a. Mommy giggled me.
   b. If you get this card it will disappear you.

   Explain what these mistakes reveal about the nature of the acquisition process. Be sure relate your answer to the discussion of *overregularization* that appears in the slides.