

Boolean Expression Practice

Linguistics 445/515

Autumn 2008

The following is a list of imaginary library subjects:

- | | |
|-------------------|------------------------------|
| 1) rock paper | 7) rock paper scissors |
| 2) rock scissors | 8) rock paper bomb |
| 3) rock bomb | 9) rock scissors bomb |
| 4) paper scissors | 10) paper scissors bomb |
| 5) paper bomb | 11) rock paper scissors bomb |
| 6) scissors bomb | |

Which of the subject numbers do the following queries match? And, for a & b, what do the Venn diagrams look like? For example, *rock AND bomb* matches 3, 8, 9, and 11 and represents the intersection between *rock* and *bomb*.

- a) rock OR paper OR scissors

- b) rock AND (paper OR scissors)

- c) (rock AND paper) OR (scissors AND bomb)

- d) (rock OR paper) AND (scissors OR bomb)

- e) rock AND (paper OR (scissors AND bomb))

- f) ((rock AND paper) OR scissors) AND bomb