Boolean Expression Practice

L245

Spring 2012

The following is a list of imaginary library subjects:

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