Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_

IB Math Studies – Set Operations, De Morgan’s Laws and Venn Diagrams

***For problems 1- 4, use the information below.***

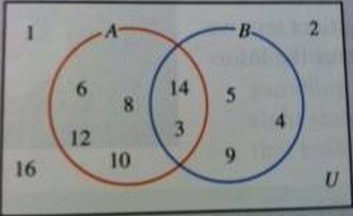
1) 2)

3) 4)

***For problems 5 – 8, draw a Venn diagram and shade the sections representing each set.***

5) 6)

7) 8)

***For problems 9 and 10, use the following Venn Diagram to find the cardinality of each set.***

9) 10)

11) 12)

***For problems 13 -16, use the following information. Note that A and B are subsets of the Universal set U.***

***(Hint: The prime numbers less than 13 are 2, 3, 5, 7 and 11.)***

13) 14)

15) 16)