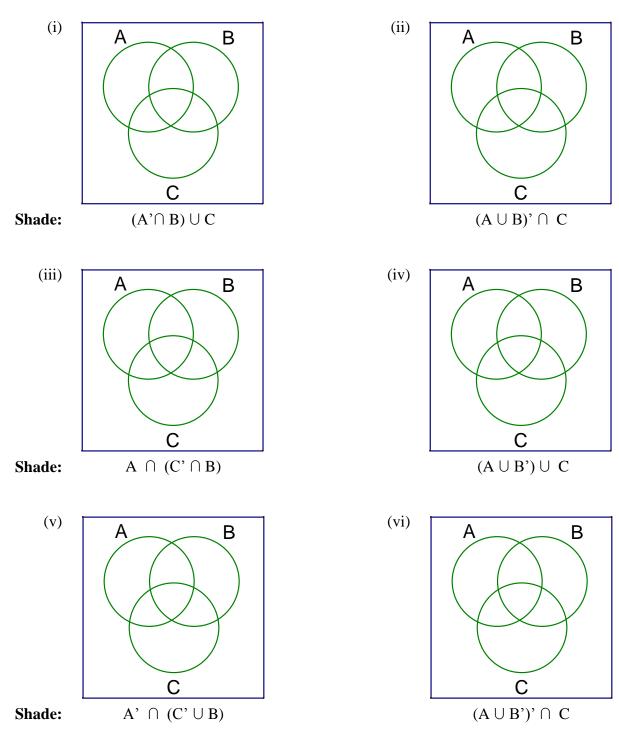
Math 211 Sets Practice Worksheet

1. Shade the region of the Venn diagram indicated by the following sets.

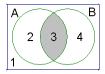


Math 211 Sets Practice Worksheet

2. List the elements in each of the following sets.

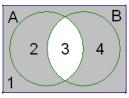
Let U = {0,1,2,3,4,5,6,7,8,9,10}; A = {0,1,2,3,5,8}; B={0,2,4,6}; C = {1,3,5,7}

- i) $A \cap B =$
- ii) B'=
- iii) $A \cup B' =$
- iv) $B \cap C =$
- v) B ∩ C' =
- vi) A' \cap C =
- vii) $(A' \cup C) \cap B =$
- viii) $(A \cap B)' =$
- ix) $(A \cap C) \cup B =$
- x) Write down a subset of A =
- 3. Refer to the diagram to answer the questions below. What set notation would you use to represent the following regions?

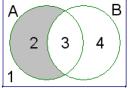


Example: Region 3 could be written as $A \cap B$

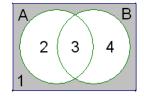
i) Regions 1, 2 and 4 are all shaded



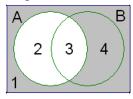
ii) Only Region 2 is shaded.



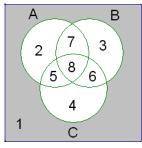
iii) Only Region 1 is shaded.



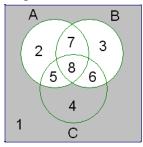
iv) Regions 1 and 4 are shaded.



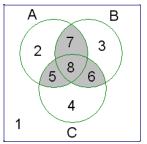
- 4. Refer to the diagram to answer the questions below.
 - i) Only Region 1 is shaded.



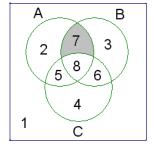
iii) Regions 1 and 4 are shaded.



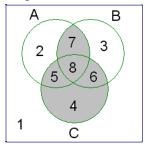
v) Regions 5, 6, 7 and 8 are shaded.



ii) Only Region 7 is shaded.



iv) Regions 4, 5, 6, 7 and 8 are shaded.



vi) Regions 1 and 3 are shaded.

