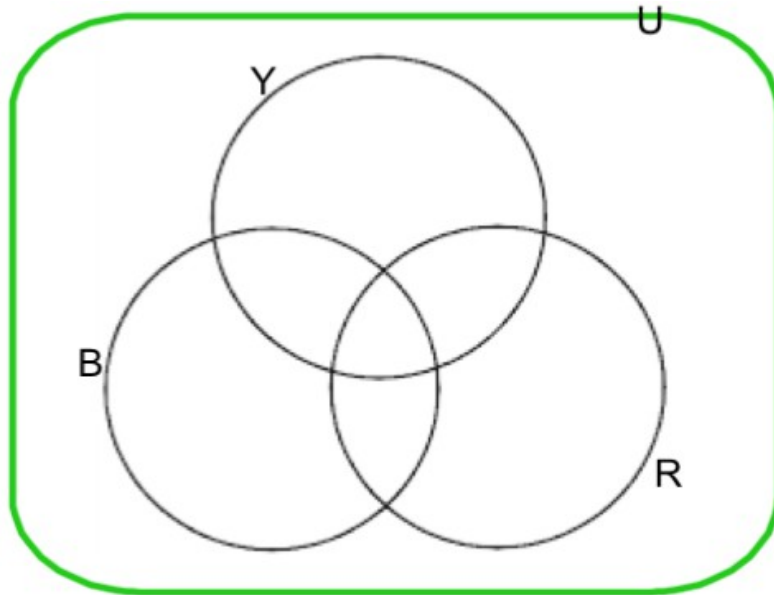## Math4010 Venn Diagram Homework
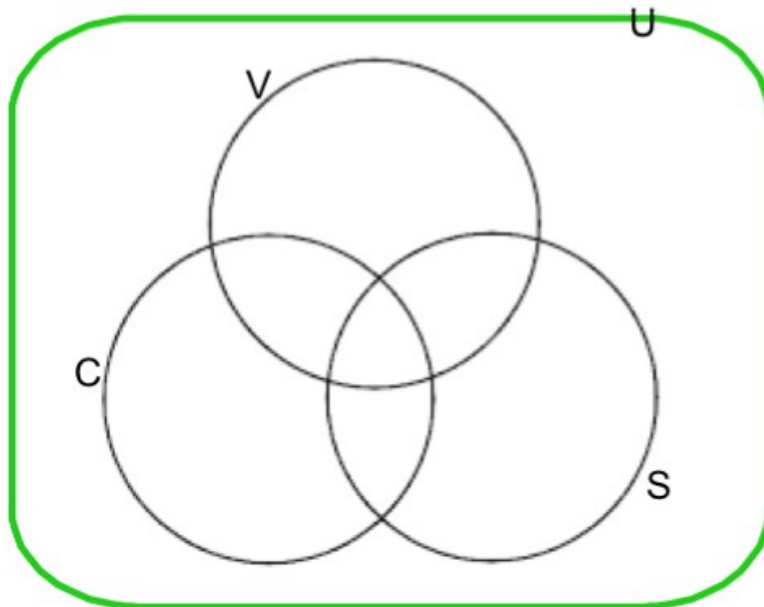
Referring to the Math4010 Class Info sheet, complete the following problems.

(1) For each of the data categories (e.g. Colors, Flavors, etc.), fill in the Venn Diagram that represents all of the information. (In each section of the Venn Diagram, just enter the number of students in that category.)
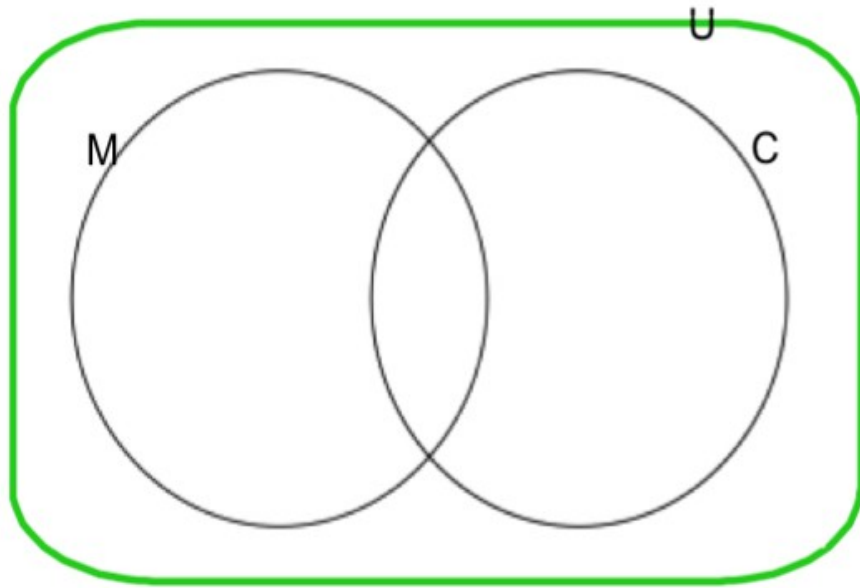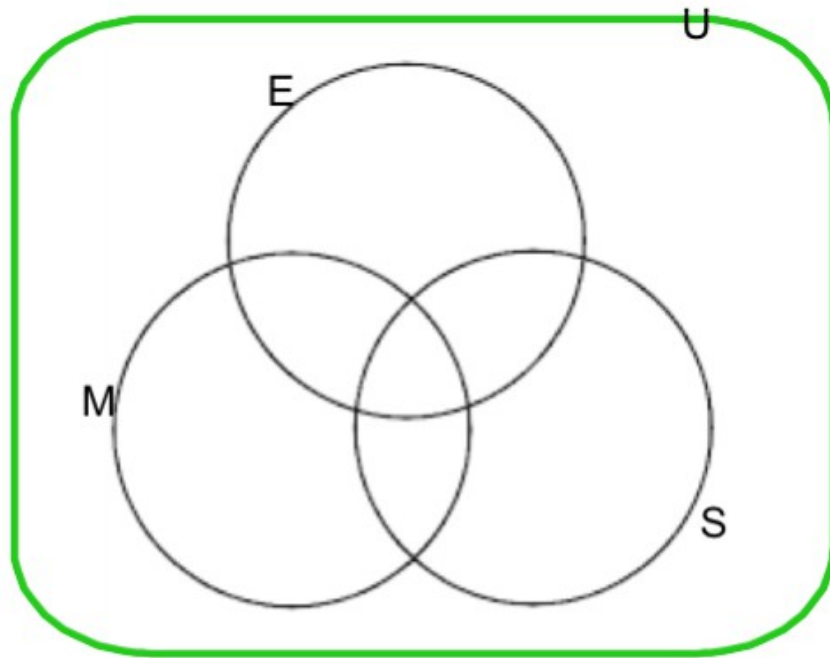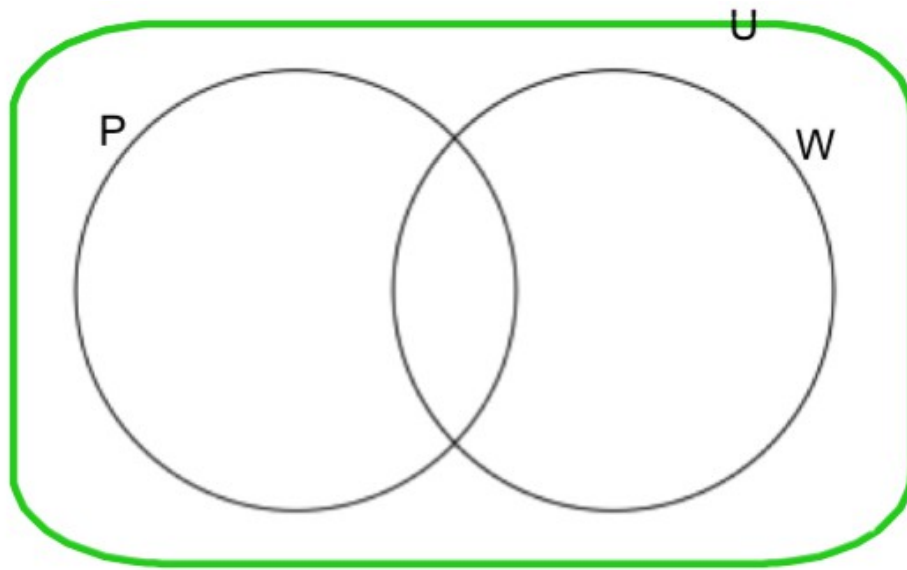
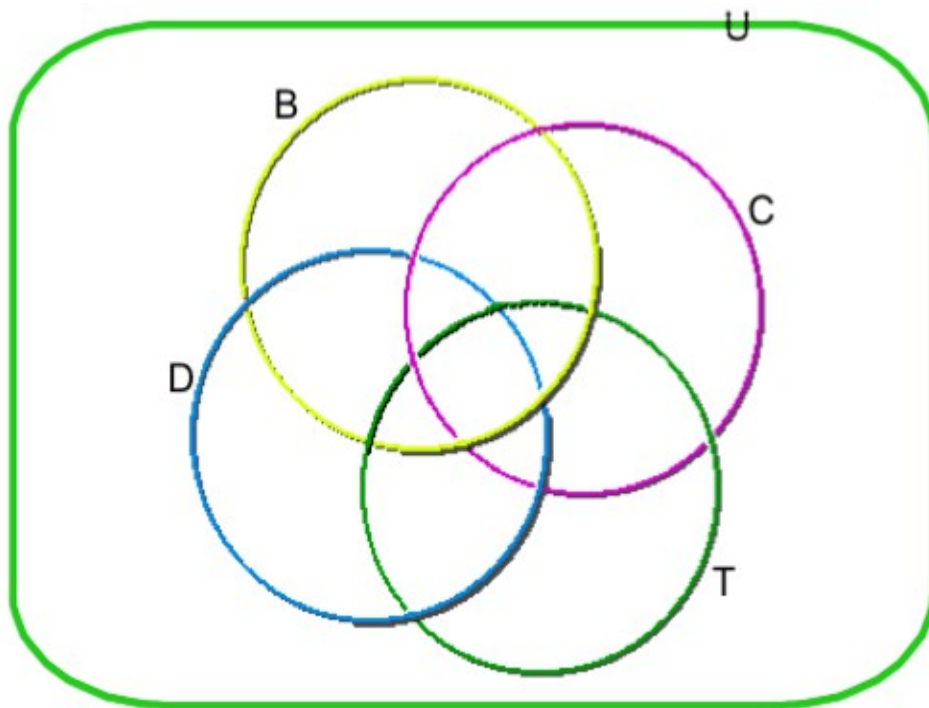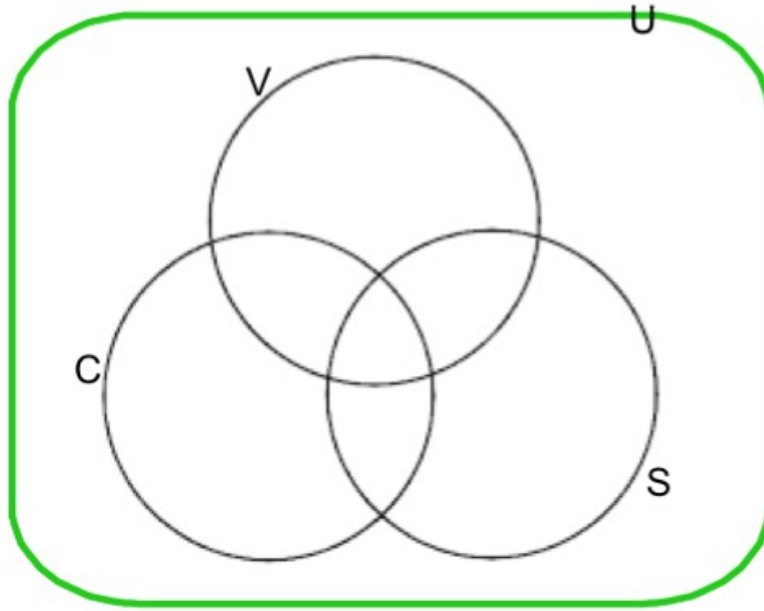**Colors:**

Flavors:

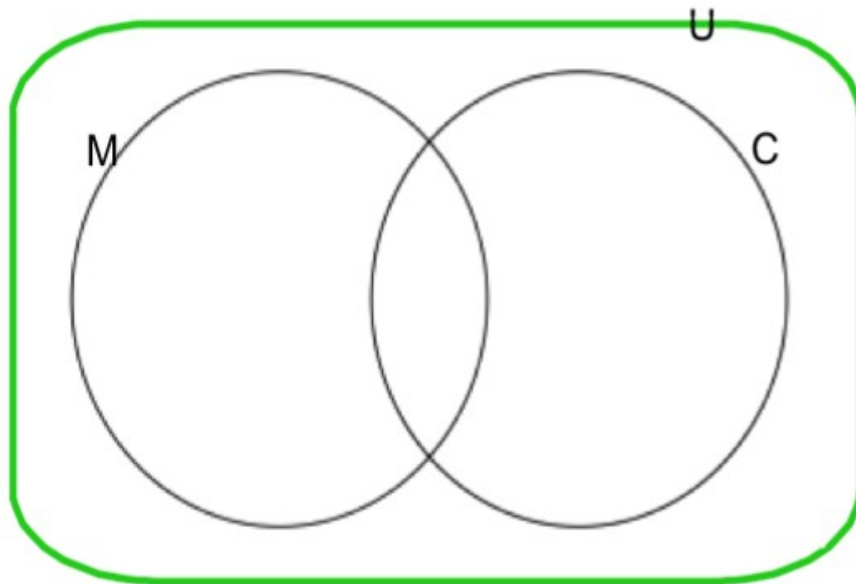**Drinks:**

Subjects:

Activities:

Transportation:

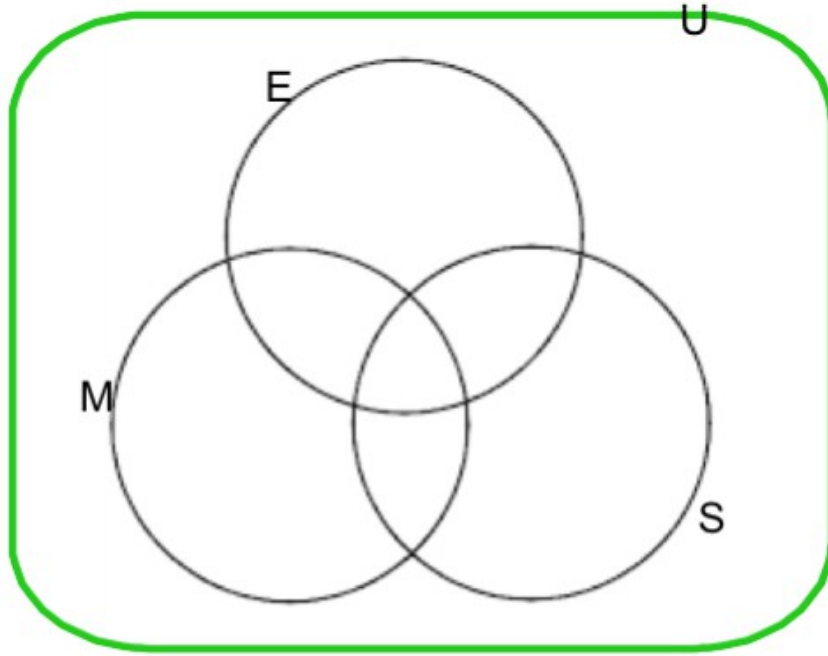(2) For the Colors set, list the set of people who like all colors.

(3) For the Flavors set, let V = set of people who like vanilla, C = set of people who like chocolate and S = set of people who like strawberry. Shade in $V-(S\cup C)$ and tell how many people are in this set.
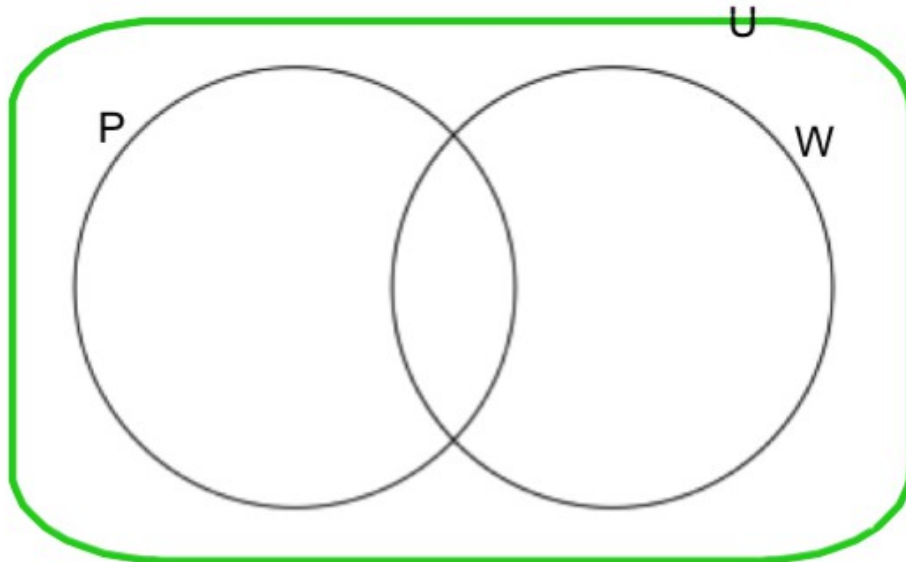

(4) For the Drinks category, let C = the set of people who drink coffee and M = set of people who drink milk. Shade in $\bar{C}\cap\bar{M}$ and tell how many people are in this set.

(5) For the Subjects category, let E = the set of people who like English, M = the set of people who like Math, and S = the set of people who like Science. Shade in $S \cap (E \cup M)$ and tell how many people are in this set.

(6) For the Activities category, list the set of people who don't like playing games nor working out.

(7) For the Transportation category, let T = the set of people who use Trax, B = the set of people who use the bus, D = the set of people who drive their own car, and C = the set of people who carpool. Shade in $(T \cup B) \cap (D - C)$ and tell how many people are in this set.