**AMDM Day 02 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Venn Diagrams Practice Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Out of forty students, 14 are taking English Composition and 29 are taking Chemistry.
2. If five students are in both classes, how many students are in neither class?
3. Label the Venn diagram using the data provided.
4. How many are in either class?
5. What is the probability that a randomly-chosen student from this group is taking only the Chemistry class?
6. At a Halloween party, some of the guests brought cookies, drinks, or candy.

 Fill in the Venn Diagram per the following information.

* 5 guest brought cookies, candy and drinks
* 19 guests brought exactly 2 items
* 21 guests brought drinks
* 20 guests did not bring cookies
* 8 guests brought only candy
* 2 guests did not bring a drink or candy
* 5 guests brought only cookies and drinks
* 11 guests brought drinks and candy

Answer the questions on the next page using this Venn Diagram.

1. What is the probability that a guest selected at random brought cookies and candy?
2. What is the probability that a guest didn’t bring anything to the party?
3. What is the probability that a guest brought drinks or candy?
4. What is the probability that a guest brought drinks given that they brought cookies?