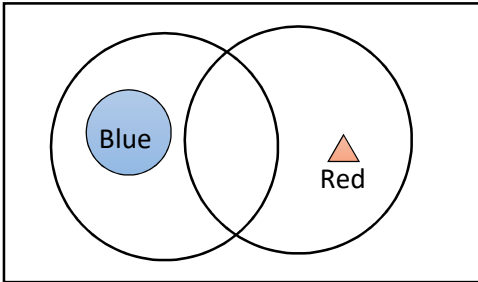




1. At the Shodor Shape Sorter site choose **overlapping sets** and **guess the rule**

Play the game a few times (doing this with a partner is probably a good idea)

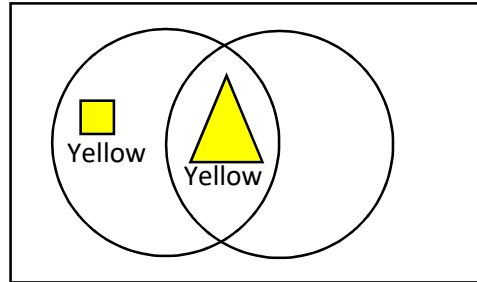
a. Suppose you have figured out these two shapes:



What do you know so far about the two rules? Why?

What shape will you try to place next? How will that shape help you figure out the rules?

b. Suppose you have figured out these two shapes:



What do you know so far about the two rules? Why?

What shape will you try to place next? How will that shape help you figure out the rules?

2. At the Shodor Shape Sorter site, the possible set rules are: →

A. Choose the option "make a rule" (on the left) Choose the **two disjoint sets** (no overlap) at the top. Set rule 1 to be "Circle". What rules are allowed choices for rule 2?

Why is "red" no longer a choice for rule 2?

- Choose A Rule ▾
- Circles
 - Triangles
 - Squares
 - Hexagons
 - Small
 - Big
 - Red
 - Yellow
 - Blue

B. Choose the option "make a rule" (on the left) Choose **two intersecting sets** (overlapping circles) at the top. Set rule 1 to be "Circle". What rules are allowed choices for rule 2?

Why is "triangles" no longer a choice for rule 2?

3. At the Shodor Venn Diagrams site, do 3 Venn diagram problems (check your answer for each, and if you run into a problem you don't understand skip down to #4). Write down the problems and the correct answer for each:

a.

b.

c.

4. At the same site, look through the problems (click Next a lot) for a problem that you don't understand, or that looks hard. Write down the problem. Write a sentence explaining what you'd need to learn in order to be able to do the problem.