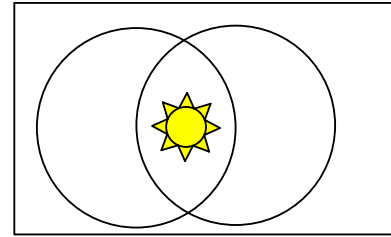


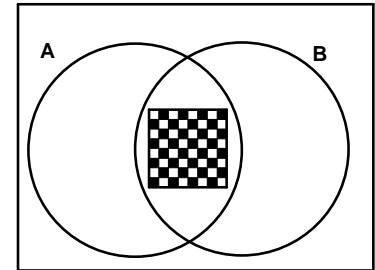
Sets and Venn diagrams HW 1

name: _____

1. In the universe of “things in the universe”, name two sets that would have the sun in the intersection of the sets.



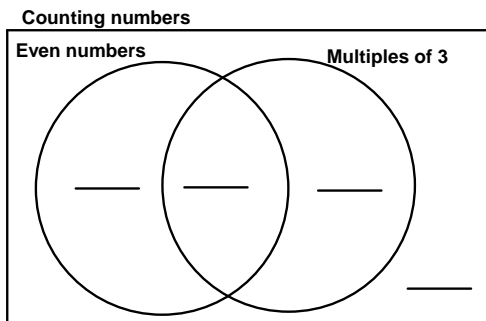
2. The element in the intersection of the sets shown is a black and white checker board. The universe is “things you can buy”



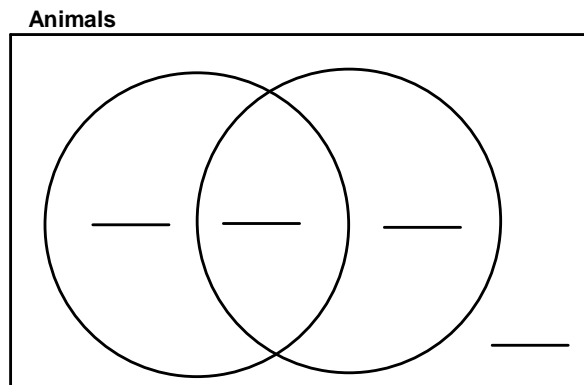
a. if set A is “Things that are black” and set B is “Things that are white, what is wrong with this example?

b. Fix the definitions of set A and set B so that the definitions still include “white” and “black”, but the checkerboard belongs in the intersection of the sets.

3. Find and write an example of something that belongs in each part of this Venn diagram:



4. In the universe of “animals”, give an example of two sets that intersect, but neither is a subset of the other. Give examples of things in each part of the Venn diagram:



5. Give an example, in the universe of “people”, of a set and a subset. Explain how you know that one set is a subset of the other:

larger set:

subset:

explanation:

6. Give an example, in the universe of “toys”, of disjoint sets. Explain how you know that these sets have no intersection.

set 1:

set 2:

explanation: