

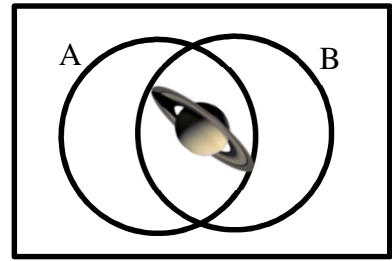
Sets and Venn diagrams definitions HW

name: _____

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

A=

B=



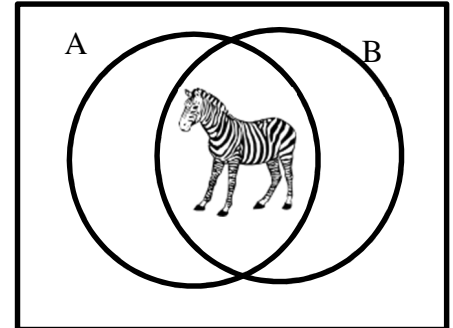
2. In the universe of “things on earth”, this zebra is in the intersection of the two sets

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

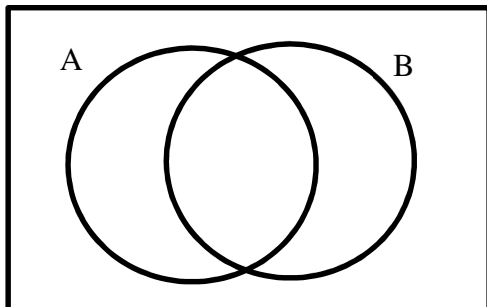
b. Fix the definitions of set A and set B so that the definitions still include “white” and “black”, but the zebra belongs in the intersection of the sets.

A=

B=



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



Universe: numbers

A: Multiples of 4

B: Factors of 20

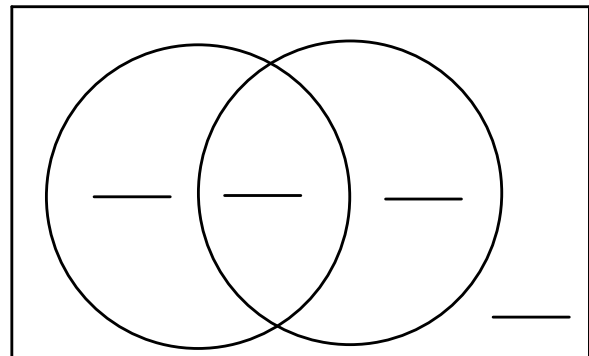
5. Give an example, in the universe of “toys”, of a set and a subset. Explain how you know that one set is a subset of the other:

larger set:

subset:

explanation:

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



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

set 1:

set 2:

explanation: