

CS 100 - Homework 11

Deadline:

Due by 11:59 pm on Friday, November 30

How to submit:

- Go to the course Moodle site.
 - (either log into myHumboldt and click the Moodle button in the upper right corner,
 - or get to it via learn.humboldt.edu,
 - ...and then click the "my moodle" button in the upper right under the big yellow moodle logo to get your list Moodle course sites,
 - or follow the link from the public course web site, users.humboldt.edu/smtuttle/f12cs100)
- Once you are at the course Moodle site, find the section titled "Submit your HOMEWORK FILES here",
 - and click on the link "Click HERE to submit Homework 11".
- You should see, in the middle of the page, a place where you can upload your homework file.
 - Note that I believe I set this up to permit multiple submissions. I couldn't set it to "unlimited", because the largest number available was 20, but that seems like it should be ample.
 - Also note that I will grade the latest file submitted before the deadline unless you e-mail and tell me otherwise.

Purpose:

To consider standard-form categorical statements and to think about Venn diagram depictions of categorical statements.

Important notes:

- Type:
 - your name, then
 - the problem number and your answer for each of the following questions,
 - into a file named `cs100hw11` (optionally followed by your name, including only letters and underscores -- NO blanks or other unusual characters)
 - Its format may be `.txt`, `.odt`, `.pdf`, `.doc`, `.docx`, or `.jpg`. (Please ask me before submitting files of other formats -- for example, please DO NOT submit `.pages` documents, because our grader cannot read them.)

The Problems:

Recall, from Chapter 9, p. 225, that the four standard-form categorical statements are:

- All S are P.
- No S are P.
- Some S are P.
- Some S are not P.

Consider Figures 1-6 on the next page.

For each of the following statements,

- either rewrite it as a standard-form categorical statement, or note that it is already in that form
- say which of Figures 1-6 depicts that statement, along with what A would be and B would be in that case.

For example, for the statement:

X. All dogs are mammals.

...you would answer

X. This is already in standard form;

It should be depicted like Figure 1, with A = Dogs and B = Mammals.

1. All architects are professionals.
2. Not a single chess master is a rock star.
3. Some tattoo artists are not archbishops.
4. Many flowers are edible.
5. Some rectangles are squares.
6. Every square must be a rectangle.
7. Some triangles are not right triangles.
8. A triangle cannot also be a rectangle.
9. Politicians are not always liars.
10. Many high-school teachers are education majors.
11. Not all desserts are fattening desserts.
12. There are mice that are not nocturnal animals.

FIGURE 1

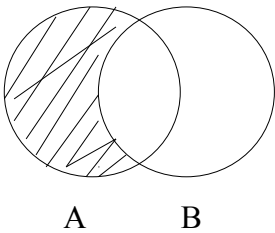


FIGURE 2

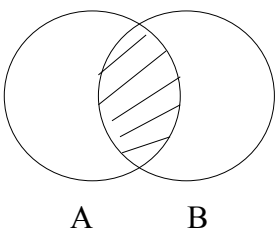


FIGURE 3

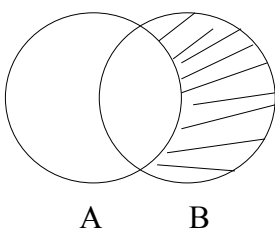


FIGURE 4

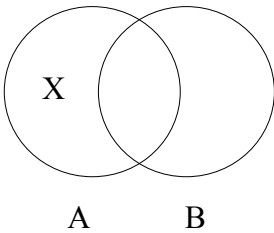


FIGURE 5

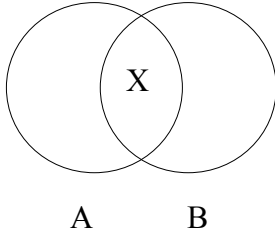


FIGURE 6

