

# Homework 04: Analogies

Due Date: Friday, Feb. 23, 2018, 23:59

80 Points

1. [20 points - 4 points per each set] Make up 5 analogies. For each analogy write one sentence showing the relationship between the first pair of words, another sentence showing the relationship between the second pair of words, and a relationship sentence (see the notes).

Example:

Analogy sentence: Paper is to tree as iron is to ore.

Sentence 1: Paper is produced from trees.

Sentence 2: Iron is produced from ore.

Relationship sentence: ----- is produced from -----

For each of questions 2 through 5, describe an analogic relationship between the given pair of words by stating a relationship sentence, and choose a pair of words from the given list of candidates that the most accurately possesses the same relationship. Be sure you pay attention to both word meanings and parts of speech. [Questions 2-5 are 10 points each]

2. nebula : astronomer

- a) hammer : carpenter
- b) watershed : ecologist
- c) microscope : biologist
- d) movie : actor
- e) chemist : element

3. lettuce : romaine

- a) gas : radon
- b) opera : musical
- c) honeycomb : cell
- d) atom : crystal
- e) actor : performer

4. miser : generous

- a) banker : cautious
- b) money : wealth
- c) wealth : money
- d) recluse : sociable
- e) spendthrift : poor

5. sonnet : poet

- a) composer : symphony
- b) despicable : villain
- c) symphony : composer
- d) monologue : actor
- e) computer scientist : algorithm

For question 6, you must not only clearly state your solution, but you must write a clear explanation of how you derived the solution. Half the score will depend on the correctness of your solution. Half will depend on the completeness and clarity of your explanation. You may include diagrams and mathematical work if you used those as part of your process. However, note that for this type of problem it is absolutely not sufficient to simply provide a solution table; you must discuss each inference you made to arrive at the final solution, including what hypotheses were used to draw the conclusion of each inference.

6. [20 points] The folks at BIRDIES (the Bird Investigation, Registration, Documentation, and Identification Elite Squad) were floored last week when each of four bird-lovers entered the headquarters on a different day carrying bird eggs that he or she claimed to have come from a different rare species, and offered them for sale. Each one's claim was unmasked as a fraud, however, when the staff at BIRDIES politely pointed out that the species represented by each one's bird egg was more than rare --- it was extinct! From the information given below, determine the day (Monday through Thursday) on which each person tried to sell the bird eggs of each species.

1. The one who tried to sell moa eggs (who isn't Marie) came on Thursday.
2. Uriah didn't come on Tuesday.
3. The one trying to unload great auk eggs came the day before Ralph.
4. Marie (who wasn't trying to sell passenger pigeon eggs) came at some point later in the week than the one trying to unload dodo eggs.
5. Linda tried to make a sale on Monday.

Your submission for this homework assignment must be made to [Canvas](#).

This homework must be done individually.

Legibility counts. It is highly recommended to use tables or diagrams to show your answers.

All assignments must include the following pledge:

*“I have not received unauthorized aid on this assignment. I understand the answers that I have submitted. The answers submitted have not been directly copied from another source, but instead are written in my own words.”*