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LIN 510

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### Module 4 homework A

#### Section 1

(note that the following table is not in the same order as the actual homework, ie a/b/c etc all in the left column. Blame it on Word 😊. But the letters listed do correspond to the proper letter in the homework, ie A is A, B is B and so on)

A: The country of France in Europe	B: the set of all actual books (and just for reference sake, this would include ebooks, right?) in the world
C: The set of all things that are red	D: The specific linguist named Noam Chomsky
E: The set of all things that eat	F: The set of all foxes in the world
G: The set of all current students	H: The state of Massachusetts in the United States
I: The set of all cars or automobiles	J: The set of all men (or genetic males) in the world
K: All motion pictures	L: The specific green (or copper, depending on how technical you want to be) statue in New York

#### Section 2

<p>A: Antonyms (opposite descriptions of measurement of depth)</p>	<p>B: Fruit is the hypernym of both apple and banana, which makes them both hyponyms of fruit</p>
<p>C: They are related by homophony (sound the same but mean different)</p>	<p>D: Table is a hyponym of furniture</p>
<p>E: They are propositions that are incompatible, they might also be antonyms.</p>	<p>F: I think they are propositions that mutually entail each other. Just like the video example of john is married/john has a spouse, studying entails that you study</p>
<p>G: Run is a hyponym of move</p>	<p>H: Sofa and couch are synonyms (both words refer to the same set of items)</p>
<p>I: Both green and blue are separate subsets of color, making them both hyponyms of the word color, neither of which refer to the same set of things.</p>	<p>J: I think punch is a hyponym of touch, since punch is a specific type of touch (albeit painful) whereas touch can mean any type of contact, hard or soft. (I could almost argue entailment, because to punch you must also touch, but I think the hyponym is the more accurate relation-but please clarify if I'm missing something! 😊)</p>

Section 3

A: Bob would have had to visit France at some point in his life for the statement to be true

B: The statement is true only if Obama was elected to the office of President directly after the 43<sup>rd</sup> president.

C: This proposition has a truth value, however, we cannot determine whether it is true or false

D: This would be true only if the country Peru was actually located in Europe. It has a truth condition, but it is false.

E: This statement requires the earth to be round

F: This false statement would require the moon to actually be made of cheese. It's truth condition is that the moon is made of cheese or not, but it is false since the moon is not made of cheese

G: This would require that some, but not all computers could create human voices. But we cannot know enough about the actual world to determine its reference

#### Section 4

A: This happens to be true only if Bob has indeed traveled to France. We must know if Bob has ever traveled to France to know if it is true.

B: This proposition is true because Obama was the 44<sup>th</sup> President. To know this we must know who the actual 44<sup>th</sup> President was.

C: We cannot determine the truth value of this statement because we can only guess and forecast the weather, not know the future with certainty. The truth condition would be whether or not it rains.

D: This proposition is false because we can determine that Peru is in South America, not Europe. It's truth condition is based on the actual location of Peru.

E: This proposition is true because we can measure the earth's circumference, calculate the movement of the moon and predict eclipses, use parallax to determine the distance to the sun and stars, and view the curvature from space. The condition of this statement is whether or not the earth is actually flat.

F: This proposition is false since humans have returned samples of the moon and found it is, unfortunately, 0% cheese. This truth condition is based on the actual composition of the moon.

G: Since we do not know the state of all computers at a given time, it is impossible to determine the truth of the proposition. Its truth condition is whether or not computers are capable of generating human voices.

## Section 5

A: Pure

B: Relative

C: Relative

D: Pure

E: Relative

F: Pure

G: Relative

H: Pure