

**Instructions:** Write name legibly. Explain so that smart people who have not taken our class will understand.

**Complete the following sentences.**

Historical hypotheses “postulate particular \_\_\_\_\_  
\_\_\_\_\_.” (p. 987)

“Classical experimental research involves making \_\_\_\_\_  
\_\_\_\_\_.” (p. 987)

“Historical research involves \_\_\_\_\_  
\_\_\_\_\_.” (p. 987)

“[T]he hoary problem of induction: \_\_\_\_\_  
\_\_\_\_\_.” (p. 987)

**Indicate whether the following statements are true or false by underlining one or the other option.**

True False Cleland thinks that historical science is methodologically inferior to experimental science.

True False Cleland thinks that historical science is methodologically superior to experimental science.

True False Cleland thinks that there is no singular scientific method.

True False Cleland thinks that scientists behave like “good falsificationists”.

**Fill in the “falsifying” form of Cleland’s “toy example” of testing the general hypothesis that “copper expands when heated.” (p. 987)**

Test implication: If \_\_\_\_\_,  
then \_\_\_\_\_.

Observe test event: \_\_\_\_\_.

Therefore, it is not the case that \_\_\_\_\_.

**Fill in the “confirming” form of Cleland’s “toy example” of testing the general hypothesis that “copper expands when heated.” (p. 987)**

Test implication: If \_\_\_\_\_,  
then \_\_\_\_\_.

Observe test event: \_\_\_\_\_.

Therefore, it is probably the case that \_\_\_\_\_.

**Cleland mentions that, “The falsity of an auxiliary assumption (versus the target hypothesis) could be responsible for a failed prediction” (988). Which philosopher that we have read espoused a view like this?**

(a) Katarzyna Paprzycka

(c) Carl Hempel

(e) Karl Popper

(b) Michael Huemer

(d) Pierre Duhem

(f) Thomas Kuhn

**Infer conclusions from the following experimental investigation.**

*Problem: Your computer is STILL not able to connect to your WiFi!!!!!! You've tried all of the above solutions!!!!*

*If the problem is WiFi signal/reception, then connecting the computer to the router with an ethernet cable will solve the problem.*

*If the problem is the internet service provider, then connecting the computer to the router with an ethernet cable will not solve the problem.*

*You find that the computer can access the internet when you connect it to the router with an ethernet cable.*

*So, the problem is not \_\_\_\_\_.*

*And the problem is probably \_\_\_\_\_.*

**Indicate your confidence in those explanations of your problem by drawing an X or O on the scale below.**

0% -----50%-----100%

**Infer conclusions from the following historical investigation.**

*Problem: Your computer has not been able to connect to FSU's WiFi (even though it accepts your password).*

*If the problem is FSU's WiFi, then everyone would (already) be unable to connect to FSU's WiFi.*

*If the problem is your computer, then everyone would (already) be able to connect to FSU's WiFi.*

*You ask everyone in the room: everyone is (already) connected to FSU's WiFi.*

*So, the problem is not \_\_\_\_\_.*

*And the problem is probably \_\_\_\_\_.*

**Indicate your confidence in the new explanations of your problem by drawing an X or O on the scale below.**

0% -----50%-----100%

**How could "the asymmetry of overdetermination" explain being less confident in the first, experimental WiFi explanations than in the second, historical WiFi explanations? (p. 989)**

**Using an example, explain what Cleland means by "smoking gun" (988, 989) and its role in separating historical science from "just-so stories" (p. 989, 990).**