

## Developing Hypotheses Practice Worksheet

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1. A hypothesis must be \_\_\_\_\_ and falsifiable.
  - a. testable
  - b. truthful
  - c. correct
  - d. accepted by all scientists
  
2. A hypothesis must be complex.
  - a. TRUE
  - b. FALSE
  
3. Fill in the blank(s):  
Complete the sentence using one of the following words: ***hypothesis***, ***experiment***, or ***conclusion***.  
A(n) \_\_\_\_\_ is based on observations and must be testable and falsifiable.
  
4. Scientists can test a hypothesis by performing experiments.
  - a. TRUE
  - b. FALSE
  
5. A hypothesis:
  - a. Allows scientists to test an explanation for a phenomenon
  - b. Is falsifiable
  - c. Is in a testable form
  - d. All of the above
  
6. It is possible to test more than one hypothesis in same experiment.
  - a. TRUE
  - b. FALSE
  
7. \_\_\_\_\_ is developed by a researcher as a reasonable explanation to explain a small range of phenomena.
  - a. An inference
  - b. A theory
  - c. A law
  - d. A hypothesis

8. Which among the following should be considered while framing a hypothesis?

- a. Is it testable
- b. Is it limited in scope
- c. Is it falsifiable
- d. All of the above

9. The next step in the scientific method after asking a question is to:

- a. Predict what will happen
- b. Draw conclusions
- c. Design and run an experiment
- d. Make a hypothesis

10. A hypothesis is discarded when:

- a. Data contradicts the hypothesis
- b. Data supports the hypothesis
- c. A theory is developed
- d. None of the above

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