

Scientific Explanations and Interpretations Practice Worksheet

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1. A _____ is information that is true.
 - a. opinion
 - b. preference
 - c. fact

2. If something is a scientific fact, the outcome of a scientific experiment demonstrating it should hold regardless of who performed the experiment.
 - a. TRUE
 - b. FALSE

3. Factual information is based on evidence.
 - a. TRUE
 - b. FALSE

4. Facts are based on observations.
 - a. TRUE
 - b. FALSE

5. Which of the following is true?
 - a. Data refer to factual information
 - b. Facts can't be verified by experiments
 - c. Opinions are only based on evidence
 - d. None of the above

6. Facts and _____ are not subject to bias.
 - a. Interpretation
 - b. Analysis
 - c. Data
 - d. Opinions

7. Data are factual information that has been collected from the scientific literature, or by systematic observations or experiments.
 - a. TRUE

b. FALSE

8. Which one of these statements is a fact?

- a. Leos have more fiery personalities than people with other astrological signs
- b. Dogs are the best pets
- c. Leaves can only be green
- d. The equator is a circle of latitude

9. Scientific explanations and interpretations are not based on facts.

- a. TRUE
- b. FALSE

10. Select all possible answers:

Which of the following is objective?

- a. data
- b. opinion
- c. fact

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