

## Chapter 1 practice

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

- 1) Science is a body of knowledge that \_\_\_\_\_  
A) describes order in nature.  
B) is an ongoing human activity.  
C) condenses knowledge into testable laws.  
D) all of the above  
E) none of the above
- 2) Eratosthenes' measurements of Earth's size involved \_\_\_\_\_  
A) a deep well in Syene.  
B) a pillar's shadow in Alexandria.  
C) surveying the distance between Alexandria and Syene.  
D) all of the above
- 3) When we see a half Moon in the sky, the lines between Earth, Moon, and Sun \_\_\_\_\_  
A) are equal in length. B) are parallel to one another.  
C) form a right triangle. D) all of the above
- 4) Spots of sunlight on the ground cast through openings between leaves in trees above are actually \_\_\_\_\_  
A) images of the Sun. B) part of a solar eclipse.  
C) due to refraction of sunlight. D) all of the above
- 5) A simple method of measuring the distance between the Earth and the Moon is to place in your line of sight to the Moon a \_\_\_\_\_  
A) magnifying glass. B) coin.  
C) telescope. D) meterstick.
- 6) An educated scientific guess is a \_\_\_\_\_  
A) hypothesis. B) theory.  
C) either of these D) neither of these
- 7) Facts in the field of science \_\_\_\_\_  
A) are absolute. B) are changeable.  
C) mean very little. D) are more important than theories.
- 8) The synthesis of a large collection of information that contains well-tested and verified hypotheses about certain aspects of the world is known as a scientific \_\_\_\_\_  
A) fact.  
B) hypothesis.  
C) law or principle.  
D) theory.  
E) none of the above

9) Which of the following is a scientific statement?

9) \_\_\_\_\_

A) candy Bon Bons contain no sugar

B) there are things we will never know about

C) matter is filled with undetectable particles

D) there are parts of the universe that will never be discovered by humans

E) none of the above

## Answer Key

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- 1) D
- 2) D
- 3) C
- 4) A
- 5) B
- 6) A
- 7) B
- 8) D
- 9) A