

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 1) _____
 - 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 2) _____
 - 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 3) _____
 - 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 4) _____
 - 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 5) _____
 - A) magnifying glass.
 - B) coin.
 - C) telescope.
 - D) meterstick.

- 6) An educated scientific guess is a 6) _____
 - A) hypothesis.
 - B) theory.
 - C) either of these
 - D) neither of these

- 7) Facts in the field of science 7) _____
 - 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 8) _____
 - 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