

Assessment

Chapter Test B**The Science of Physics****MULTIPLE CHOICE**

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- _____ 1. A hiker uses a compass to navigate through the woods. Identify the area of physics that this involves.
- a. thermodynamics
 - b. relativity
 - c. electromagnetism
 - d. quantum mechanics
- _____ 2. According to the scientific method, how does a physicist formulate and objectively test hypotheses?
- a. by defending an opinion
 - b. by interpreting graphs
 - c. by experiments
 - d. by stating conclusions
- _____ 3. Diagrams are *not* designed to
- a. show relationships between concepts.
 - b. show setups of experiments.
 - c. measure an event or a situation.
 - d. label parts of a model.
- _____ 4. The most appropriate SI unit for measuring the length of an automobile is the
- a. micron.
 - b. kilometer.
 - c. meter.
 - d. nanometer.
- _____ 5. The radius of Earth is 6 370 000 m. Express this measurement in km in scientific notation with the correct number of significant digits.
- a. 6.37×10^6 km
 - b. 6.37×10^3 km
 - c. 637×10^3 km
 - d. 63.7×10^4 km
- _____ 6. Three values were obtained for the mass of a metal bar: 8.83 g; 8.84 g; 8.82 g. The known mass is 10.68 g. The values are
- a. accurate.
 - b. precise.
 - c. both accurate and precise.
 - d. neither accurate nor precise.
- _____ 7. Calculate the following, and express the answer in scientific notation with the correct number of significant figures: $10.5 \times 8.8 \times 3.14$
- a. 2.9×10^2
 - b. 290.136
 - c. 2.90×10^2
 - d. 290

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Amouzegar,2017-02-04 This proceedings volume contains selected revised and extended research articles written by researchers who participated in the World Congress on Engineering and Computer Science 2015 held in San Francisco USA 21 23 October 2015 Topics covered include engineering mathematics electrical engineering circuits communications systems computer science chemical engineering systems engineering manufacturing engineering and industrial applications The book offers the reader an overview of the state of the art in engineering technologies computer science systems engineering and applications and will serve as an excellent reference work for researchers and graduate students working in these fields

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