

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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Xiang Xie



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