

## 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.  $6.37 \times 10^6$  km
  - b.  $6.37 \times 10^3$  km
  - c.  $637 \times 10^3$  km
  - d.  $63.7 \times 10^4$  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.  $2.9 \times 10^2$
  - b. 290.136
  - c.  $2.90 \times 10^2$
  - d. 290

# Holt Physics Chapter Test B Answers

**Lingsheng Yao**



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