

## 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                      c. electromagnetism  
b. relativity                                d. quantum mechanics
- \_\_\_\_\_ 2. According to the scientific method, how does a physicist formulate and objectively test hypotheses?  
a. by defending an opinion                c. by experiments  
b. by interpreting graphs               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.                                    c. meter.  
b. kilometer.                                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                          c.  $637 \times 10^3$  km  
b.  $6.37 \times 10^3$  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.                                c. both accurate and precise.  
b. 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.  $2.9 \times 10^2$                                 c.  $2.90 \times 10^2$   
b. 290.136                                  d. 290

# Holt Physical Science Quiz Ch 12 Forces

**Ying-Ying Zheng**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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