

# Building Construction: Basic Surveying Quiz I

## Multiple Choice

- \_\_\_1. Of the following, which most accurately measures long distances?
- a. the pacing method
  - b. ropes and chains
    - c. surveyor's wheel
    - d. surveyor's tape measure
- \_\_\_2. What is the minimum number of crewmembers needed when using laser plane equipment?
- a. one
  - b. two
  - c. three
  - d. four
- \_\_\_3. A surveyor's story pole or rod
- a. measures height in feet and inches
  - b. measures height in feet and tenths and hundredths of feet
    - c. can be used to measure long horizontal distances
    - d. can be used to measure angles
- \_\_\_4. Of the following tools, which measures angles most accurately?
- a. Gunter's chains
  - b. dumpy level
  - c. surveyor's transit
  - d. laser plane
- \_\_\_5. A surveyor can determine the sine or cosine of an angle by
- a. looking up the angle in tables found in the back of most field notebooks
  - b. using a calculator with trigonometric capabilities
  - c. reading the angle gauge on the transit
  - d. both a and b

# Building Construction: Basic Surveying Quiz II

## Multiple Choice

- \_\_\_ 1. In a field notebook, descriptions are written
- a. on the left side of the page
  - b. on the right side of the page
  - c. on either side of the page
  - d. on the opposite side of the tabulation
- \_\_\_ 2. In a field notebook, sketches are placed
- a. on the left side of the page
  - b. on the right side of the page
  - c. on either side of the page
  - d. on the same side as the tabulation
- \_\_\_ 3. A field notebook must contain
- a. crew members' addresses and contact information
  - b. the surveying instrument and serial number
  - c. the elevation above sea level
  - d. the location of the surveying company
- \_\_\_ 4. Duplicates of field notebooks
- a. are illegal because field notebooks are legal documents
  - b. should be labeled "copy"
  - c. should be submitted to the county courthouse
  - d. should be labeled "master"
- \_\_\_ 5. Combinations documented in a field notebook can include
- a. sketches
  - b. tabulations
  - c. descriptions
  - d. all of the above

# Building Construction: Basic Surveying Quiz III

## Multiple Choice

- \_\_\_ 1. Differential leveling is used to
- a. calculate the difference in elevation between two points
  - b. calculate the angle between two property boundaries
  - c. identify trees on a piece of property
  - d. both a and c
- \_\_\_ 2. Profile leveling is used to
- a. lay out a grid pattern across a plot of land
  - b. calculate the angle between two property boundaries
  - c. calculate placement and removal of soil for leveling
  - d. both a and c
- \_\_\_ 3. Route surveying can be used to
- a. construct long stretches of highway and railroad
  - b. bury water pipes for subdivisions
  - c. place overhead power lines
  - d. all of the above
- \_\_\_ 4. The program demonstrates 90-degree angle batter board construction using which mathematical technique and measuring tool?
- a. advanced calculus and a plumb bob
  - b. advanced physics and a laser-guided system
  - c. the Pythagorean Theorem (3-4-5 triangles) and tape measures
  - d. simple addition and the pacing method
- \_\_\_ 5. Which of the following was not mentioned as a use for surveying?
- a. space exploration
  - b. underwater obstacle identification
  - c. city mapping
  - d. oil well drilling and seismographic work

# Building Construction: Basic Surveying

## Final Quiz

### Multiple Choice

- \_\_\_1. Another name for "story pole" is
- a. Philadelphia rod
  - b. Gunter's Chains
  - c. grading stake
  - d. all of the above
- \_\_\_2. Problems encountered with Gunter's chains include
- a. dirt between the links can cause wear to the links
  - b. over time, Gunter's chains tend to increase in length
  - c. over time, Gunter's chains can break
  - d. all of the above
- \_\_\_3. To find the area of a triangular piece of property, one must find
- a. the measure of one angle of the triangle
  - b. the measure of two of the angles of the triangle
  - c. the measure of all three angles of the triangle
  - d. the length of two sides and the angle created by them
- \_\_\_4. Problems encountered when using rope to measure distances include
- a. ropes tend to shrink
  - b. ropes tend to break
  - c. ropes tend to stretch
  - d. both a and c
- \_\_\_5. Tabulations are placed upon which side of the page in a field notebook?
- a. on the left
  - b. on the right
  - c. on either side
  - d. on the opposite side as the description