

Name:

Date:

Class:

Lesson 7.5: Agricultural Design and Fabrication

Know and Understand

Answer the following questions using the information provided in this lesson.

1. *True or False?* The first step in the design process is to create a plan. (7.5.1)

Answer:

2. Construction plans consist of sketches, formal drawings of the project, and _____. (7.5.2)

- A. the tools needed to build the project
- B. a list of construction personnel
- C. a bill of materials
- D. research notes on the project

Answer:

3. What is the purpose of a sketch? (7.5.2)
 - A. To provide rough estimates needed for the formal drawing.
 - B. To help prepare the bill of materials.
 - C. To determine the tools needed to build the project.
 - D. To help determine who should build the project.

Answer:

4. What is the difference between a sketch and a formal drawing? (7.5.2)
 - A. A sketch is made with precise lines.
 - B. A sketch is drawn to scale.
 - C. A formal drawing is drawn to scale.
 - D. A formal drawing includes a bill of materials.

Answer:

5. A type of drawing that shows how an object would look if cut in two is a(n) _____. (7.5.2)
- A. pictorial drawing
 - B. sectional drawing
 - C. detail drawing
 - D. assembly drawing

Answer:

6. What does a drawing scale of 1" = 10' indicate? (7.5.2)
- A. One foot on the drawing equals 10' on the actual object.
 - B. One inch on the drawing equals 10" on the actual object.
 - C. One inch on the drawing equals 10' on the actual object.
 - D. One foot on the drawing equals 10" on the actual object.

Answer:

7. What is the purpose of phantom lines in a formal drawing? (7.5.2)
- A. To indicate moving parts.
 - B. To show lines hidden from view.
 - C. To show the edges of a project.
 - D. To indicate measurements.

Answer:

8. Formal drawings need to be in proportion. What is proportion in a formal drawing? (7.5.2)
- A. All parts are drawn in the same way.
 - B. All parts are drawn to the same size.
 - C. All parts are drawn accurately.
 - D. All parts are drawn to scale.

Answer:

9. *True or False?* Projects require measurements to be taken before and after a project is completed. (7.5.3)

Answer:

10. *True or False?* The measuring system used (English or metric) should be indicated on drawings. (7.5.3)

Answer:

11. Which of the following is a common measuring tool? (7.5.3)

- A. Rules
- B. Tapes
- C. Squares
- D. All are correct.

Answer:

12. For what is a level used? (7.5.3)

- A. Measuring an object in feet and inches.
- B. Measuring the degree to which an object is vertical.
- C. Measuring the degree to which an object is horizontal and the degree to which it is vertical.
- D. Measuring level lines.

Answer:

13. *True or False?* A chalk line reel is used to mark straight lines over a long distance. (7.5.3)

Answer:

14. Which of the following plans shows the vertical feature of a structure? (7.5.4)

- A. Site plans
- B. Floor plans
- C. Elevation plans
- D. Assembly drawings

Answer:

15. *True or False?* A bill of materials requires a list of all materials needed for a project and their associated costs. (7.5.5)

Answer:

16. What does ASTM do? (7.5.6)

- A. Tests construction materials.
- B. Double-checks formal drawings.
- C. Checks a bill of materials for accuracy.
- D. Provides measurements for formal drawings.

Answer:

17. Which of the following organizations prepares electrical wiring codes for use by state and local governments? (7.5.6)

- A. American Society for Testing Materials
- B. National Fire Protection Association
- C. Underwriters Laboratories
- D. National Construction Association

Answer: