

Communicating Design Solutions

Name _____ Period _____
Date _____ Score _____

Chapter 12 Quiz

True/False: If a statement is true, write *True* in the blank. If a statement is false, write *False* in the blank.

- _____ 1. Detail drawings usually contain all the information to manufacture a specific part needed to complete a product.
- _____ 2. Detail drawing should show as many views as possible.
- _____ 3. Tolerance is the acceptable amount of deviation from a given dimension.
- _____ 4. Center lines locate holes in a part and should be constructed as a light line with alternating long and short dashes.
- _____ 5. Orthographic assembly drawings use a single view to show how parts fit together.
- _____ 6. The major benefits of computer-aided design are that it is faster, the drawings are more uniform, and the drawings are easier to correct and store.
- _____ 7. The physical properties of a material include strength and hardness.
- _____ 8. Technical data sheets are prepared by large purchasers to detail specifications for materials and products they need.
- _____ 9. Extension lines indicate the points from which measurements are taken.

Multiple Choice: Choose the best answer and write the corresponding letter in the blank.

- _____ 10. Which of the following types of orthographic projections are used to show the size and shape of cylindrical parts?
a. One-view drawings
b. Two-view drawings
c. Three-view drawings
d. None of the above
- _____ 11. Which of the following lines show the shape of the object and should be the darkest lines of the drawing?
a. Hidden lines
b. Center lines
c. Object lines
d. Both b. and c.
- _____ 12. Which of the following information is included on a bill of materials?
a. The part number
b. The size of the part
c. A description of the part
d. All of the above

(Continued)

Name _____

- _____ 13. Which of the following would show the relationship between electrical and hydraulic or pneumatic components?
- a. System drawings
 - b. Detail drawings
 - c. Assembly drawings
 - d. None of the above

Short Answer: In the space provided, write a brief answer to each of the following questions.

14. List the three types of documents used to communicate a product's specifications.

15. Describe each of the following: detailed drawings, assembly drawings, and system drawings.
