

# Evaluating Design Solutions

Name \_\_\_\_\_ Period \_\_\_\_\_  
Date \_\_\_\_\_ Score \_\_\_\_\_

## Chapter 11 Quiz

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

- \_\_\_\_\_ 1. Graphs show the relationship between components in a system.
- \_\_\_\_\_ 2. A mock-up is a working model of a product.
- \_\_\_\_\_ 3. Economic analysis is used to evaluate the chances for making a profit on a certain product.
- \_\_\_\_\_ 4. High-precision specifications are always required for a product to function properly.
- \_\_\_\_\_ 5. Computer simulation can be used to test the strength of a product.

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

- \_\_\_\_\_ 6. Which of the following show the relationship between components of a system?  
a. Graphs  
b. Charts  
c. Diagrams  
d. Both b. and c.
- \_\_\_\_\_ 7. Which type of models show the relationship of things through formulas?  
a. Physical models  
b. Mathematical models  
c. Graphic models  
d. None of the above
- \_\_\_\_\_ 8. Which of the following computer models is frequently used in developing sheet metal products?  
a. Surface models  
b. Wire frame models  
c. Solid models  
d. None of the above
- \_\_\_\_\_ 9. Evaluating the materials and tolerances specified for a design is known as:  
a. functional analysis.  
b. market analysis.  
c. specification analysis.  
d. human factors analysis.
- \_\_\_\_\_ 10. Studying present and anticipated competition is one aspect of:  
a. market analysis.  
b. economic analysis.  
c. human factors analysis.  
d. functional analysis.

(Continued)

Name \_\_\_\_\_

- \_\_\_\_\_ 11. Ergonomics is a concept that relates to:
  - a. market analysis
  - b. human factors analysis.
  - c. functional analysis.
  - d. economic analysis.
  
- \_\_\_\_\_ 12. Which of the following is a physical model?
  - a. Surface model
  - b. Prototype
  - c. Solid model
  - d. Graph
  
- \_\_\_\_\_ 13. Which of the following is *not* a type of graphic model?
  - a. Chart
  - b. Conceptual model
  - c. Diagram
  - d. Mock-up

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

14. Name two situations that may cause a product to be redesigned.

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15. List the five types of design analysis.

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