



Quiz 10A

Dimensioning

Name _____

Date _____ Section _____ Score _____

Carefully read each question before answering it. Write your answer in the space provided.

1. Explain why it is important to provide the most pertinent information in the clearest way possible when dimensioning a drawing. _____

2. Mechanical drawings dimensioned in inches are most commonly dimensioned in _____ inches. 2. _____
3. Metric drawings are most commonly dimensioned in _____. 3. _____
4. In unidirectional dimensioning, dimensions are placed _____ so that they are read from the bottom of the drawing. 4. _____
5. The dimension line is a _____. 5. _____
 - A. heavy black line
 - B. thin black line
 - C. heavy dashed line
 - D. thin dashed line
6. An extension line begins $1/16''$ away from the point, edge, intersection, or detail of the object and extends about _____ past the last dimension line it is used for. 6. _____
7. A(n) _____ is an angular dimension line used to specify sizes of circles and arcs or to point out special characteristics of an object. 7. _____
8. For most applications, _____ long arrowheads are satisfactory for dimensioning. 8. _____
 - A. $1/8''$
 - B. $1/4''$
 - C. $1/2''$
 - D. $3/4''$
9. The three basic types of dimensions are overall, _____, and size dimensions. 9. _____
10. Dimensions are placed on the views that show the true _____ of the detail being dimensioned. 10. _____

11. Which of the following is true of dimensions? 11. _____
- A. Dimensions should be placed within the outlines of the views.
 - B. Overall dimensions should be placed nearest the view, while the smaller dimensions should be placed farther from the view.
 - C. Dimensions should be placed so that no scaling of the drawing is necessary.
 - D. Dimensions should be duplicated across views.
12. Define *chain dimensioning*. _____

13. In the space below, give the symbols used to indicate the diameter of a circle and the radius of an arc.
14. In the space below, sketch the following hole symbols.
- A. Hole depth
 - B. Countersunk hole
 - C. Counterbored or spotfaced hole
15. When associated with the diameter of a circle, a leader always points to what? _____

16. When dimensioning the multiview drawing of a cylinder, the diameter and length should be dimensioned in which view? _____
17. Explain the different types of units used to express angular dimensions. _____

18. Define *dual dimensioning*. _____

19. A(n) _____ is an exact point, axis, plane, or surface from which features of a part are located. 19. _____
20. Briefly describe some of the factors to consider when creating a dimension style for use in a CAD drawing. _____

