

- d. Angular measurements may be measured directly.
 - e. The isometric axes form angles of 120°
8. The “four-center method” is a procedure for drawing:
- a. Circles
 - b. Ellipses
 - c. Irregular curves
 - d. Lines at proportional distances.
 - e. Angles at proportional distances
9. Isometric drawings are well suited for
- a. Floor plans
 - b. Plot plans
 - c. Exploded assembly views
 - d. Auxiliary views
 - e. Working drawings
10. The most realistic pictorial view is the view drawn in _____.
11. The most important rule in freehand sketching is to keep the sketch in _____.
12. An isometric sketch or drawing is approximately _____ larger than the isometric projections.
13. When receding lines are drawn to half size, the drawing is known as _____ projection.
14. Vanishing points are used in _____ projections.

Chapter 3 Answers

- 1. B
- 2. C
- 3. E
- 4. A
- 5. B
- 6. D
- 7. D
- 8. B
- 9. C
- 10. Perspective
- 11. Proportion
- 12. 25%
- 13. Cabinet
- 14. Perspective

Chapter 4 – Using Geometry for Modeling and Design

1. An eight-sided regular polyhedron is a:
 - a. Tetrahedron
 - b. Hexahedron
 - c. Octahedron
 - d. Dodecahedron
 - e. Icosahedrons
2. A point moving around and along the surface of a cylinder or cone with a uniform angular velocity about the axis, with a uniform linear velocity about the axis, and with a uniform velocity in the director of the axis describes a:
 - a. Cycloid
 - b. Involute
 - c. Spiral of Archimedes
 - d. Helix
 - e. Hyperbola
3. A triangle having two sides that are equal defines a/an:
 - a. Equilateral triangle
 - b. Isosceles triangle
 - c. Obtuse triangle
 - d. Scalene triangle
 - e. Right triangle
4. A line intersecting a circle at two points but not passing through the diameter describes a:
 - a. Secant
 - b. Segment
 - c. Chord
 - d. Tangent
 - e. Radius
5. (True or False) When using a CAD system, specific points in geometry may be located using the GRID function.
6. (True or False) The sum of the squares of the shorter legs of a right triangle is equal to the square of the hypotenuse.
7. (True or False) Two circles having different size radii but having the same center point are said to be eccentric circles.
8. (True or False) When using an ellipse template to draw ellipses, it is necessary to select a template that approximates the ellipse angle.
9. (True or False) By correctly placing standard drawing triangles, you are able to draw angles at 10° increments.
10. (True or False) A straight line that intersects a circle at only one point, regardless of its length, creates a point of tangency.
11. (True or False) A straight line drawn as a perpendicular bisector of another straight line will form two 90-degree angles.