Module 10    Coordinate Geometry and Spatial Visualization
Lesson 4      Three-Dimensional Shapes

**For the figures on the left, write the letter or letters of the terms on the right that match.**

1. **a, g**

2. **b**

3. **l**

4. **a, c, i**

5. **a, d, f**
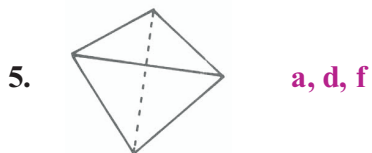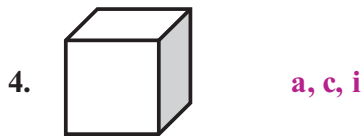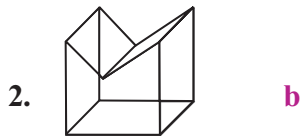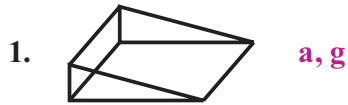
a. Convex polyhedron

b. Concave polyhedron

c. Hexahedron

d. Tetrahedron

e. Octahedron

f. Triangular pyramid

g. Triangular prism

h. Rectangular pyramid

i. Rectangular prism

j. Sphere

k. Cylinder

l. Cone

**Use the figure on the right for Problems 6 and 7.**
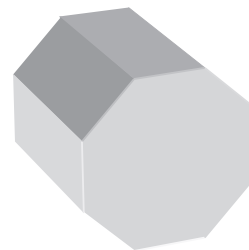
6. Classify the polyhedron.

   **Octagonal prism**

7. How many vertices, faces, and edges are there?

   **Vertices: 16      Faces: 10      Edges: 24**

**Use the figures on the right for Problems 8 – 10.**



8. Which segment is a radius of the cone? $\overline{PM}$

9. Which segment is a radius of the sphere? $\overline{EL}$

10. Which segment is a radius of the cylinder? $\overline{AN}$