

Sorting Three-Dimensional Figures

NCTM Standards 3, 7, 8, 9, 10

For each three-dimensional figure, write the letters of *all* attributes that apply. Some attributes apply to more than one figure.

1 Pyramid

2 Cone

3 Prism

4 Sphere

5 Cylinder

Attributes

- A** All its faces are polygons.
- B** It has at least one circular base and one other surface.
- C** It has more vertices than faces.
- D** The number of vertices equals the number of faces.
- E** It is a polyhedron.
- F** All its faces are polygons, and all but one of the faces share a vertex.
- G** It has two parallel, congruent bases.
- H** It has no vertices or faces.
- I** One of its faces can be any polygon. The rest are triangles.
- J** All points on this figure are the same distance from a single point.
- K** It is two-dimensional.
- L** It is three-dimensional.
- M** All its faces must be rectangles.
- N** All its faces must be triangles.

