Name: _____   Date: _____

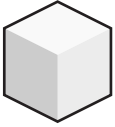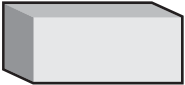# Characteristics of Spheres

A **sphere** is a round 3-dimensional shape that has:
- No sides
- No corners
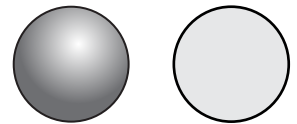- All points at an equal distance from the center
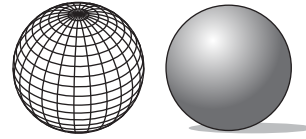
Part 1 - Is It a Sphere?

Directions: *Look at the shapes and decide whether or not each is a sphere. Then, explain how you know. Be sure to mention the characteristics!*

Shape	Is it a sphere?	Explanation
	No	This shape is not a sphere because it has sides and corners. A sphere does not have either of those. It is also not round like a sphere.
	No	This shape is not a sphere because it has sides and corners, and a sphere does not have those things. It is not round like a sphere.
	No	This shape is not a sphere because it has sides and corners, which a sphere does not have. Also, this shape is two-dimensional while a sphere is three-dimensional.
	Yes	This shape is a sphere because it has no sides or corners. All points are an equal distance from the center. It is a round three-dimensional shape.

Part 2 - Compare Shapes

Directions: *Compare the shapes and answer the questions that follow.*

What do the two shapes have in common? What is different about the two shapes?

Both shapes are circular, or round. Both shapes have no sides or edges. In both shapes, all points are an equal distance from the center. However, the circle is a two-dimensional shape, while the sphere is a three-dimensional shape.