Lesson 10.1: The Geometry of Solids

In this lesson you will:

the _____ of the pyramid.

- learn about polyhedrons, including prisms and pyramids
- learn about solids with curved surfaces, including cylinders, cones, and spheres

*Add "polyhedron," "prism," "right (cone, cylinder, or prism)", "oblique (cone, cylinder, or prism)," "pyramid," "cylinder," "axis," "cone," "sphere," "hemisphere," and "great circle" to your dictionary.

In this chapter you will study three-dimensional solid figures. Lesson 10.1 introduces various types of three-dimensional solids and the terminology associated with them. Read the lesson (pgs. 520-524). Then review what you read by completing the statements and answering the questions below.

1.	A polyhedron is a solid formed by that enclose a single region of space.
2.	A segment where two faces of a polyhedron intersect is called a(n)
3.	A polyhedron with six faces is called a(n)
4.	A tetrahedron has faces.
5.	If a face of a polyhedron is enclosed by a regular polygon, and each face is congruent to the other faces, and the faces meet each vertex in exactly the same way, then the polyhedron is called a(n)
6.	A(n) is a polyhedron with 2 faces, called bases, that are congruent, parallel polygons.
7.	The faces of a prism that are not bases are called
8.	What is the difference between a right prism and an oblique prism?
9.	What type of solid is shown at right?
10	. How many bases does a pyramid have?
11	.The point that all the lateral faces of a pyramid have in common is

12. What is the difference between an altitude of a pyramid and the height of a pyramid?
13. What type of solid is shown at right?
14. Name three types of solids with curved surfaces. •
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15. A(n) is the set of all points in space at a given distance from a given point.
16. A circle that encloses the base of a hemisphere is called a(n)
17. Give an example of a real object that is shaped like a cylinder. Explain how you know that it is a cylinder.
18. Label each cylinder below as an oblique cylinder or a right cylinder. For each cylinder, draw and label the <i>axis</i> and the <i>altitude</i> .
19. The base of a cone is a(n)
20. If the line segment connecting the vertex of a cone with the center of the base is perpendicular to the base, then the cone is a(n)
⇒ASSIGNMENT: