LESSON 12.1

NAME _____ DATE _____

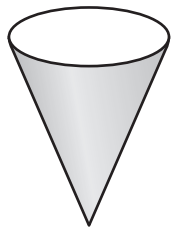
# Practice C

**For use with pages 719–726**

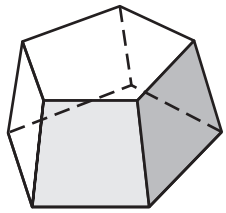


**Tell whether the solid is a polyhedron. Explain your reasoning.**

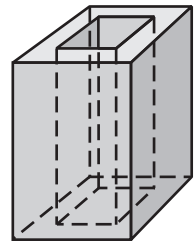
**1.**



**2.**

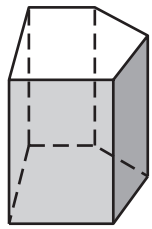


**3.**

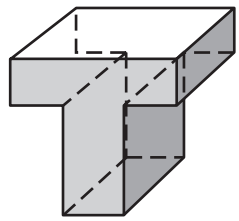


**Count the number of faces, vertices, and edges of the polyhedron. Verify that the results satisfy Euler's Theorem.**

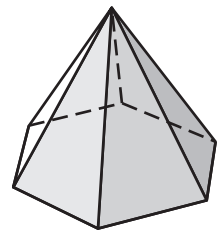
**4.**



**5.**



**6.**



**Determine whether the statement is *true* or *false*.**

**7.** A polyhedron can have a circular face.

**8.** Every regular polyhedron is convex.

**9.** The cross section of a tetrahedron could be a square.

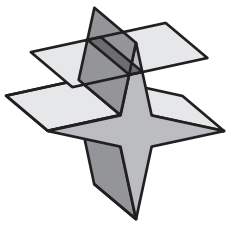
**10.** The cross section of a cube could be an equilateral triangle.

**11.** A polyhedron always has more edges than faces and vertices combined.

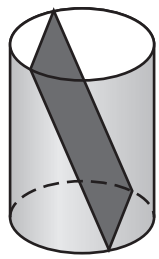
**12.** A polyhedron can have exactly 4 faces and exactly 4 edges.

**Describe the cross section shown.**

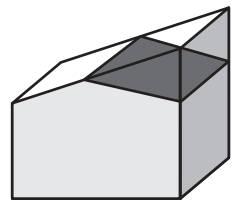
**13.**



**14.**

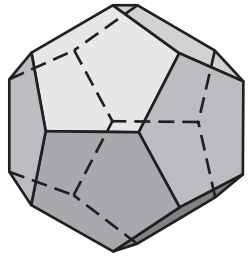


**15.**

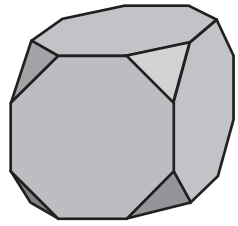


**Calculate the number of vertices of the solid using the given information.**

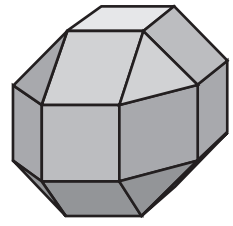
**16.** 12 faces; all pentagons



**17.** 14 faces; 8 triangles and 6 octagons



**18.** 26 faces; 18 squares and 8 triangles



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