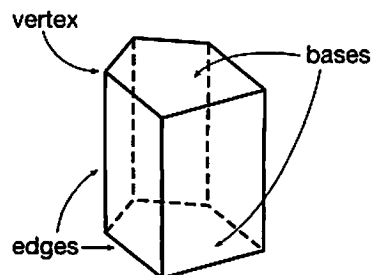




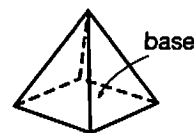
SKILL 14: Prisms and Pyramids

The figure at the right is a **prism**. The flat surfaces that make up the figure are polygons. These surfaces are the **faces** of the prism. Each corner point is a **vertex**. The segments where faces meet are the **edges** of the prism. Every prism has 2 faces that are parallel and congruent. They are the **bases**. Prisms are named by the shape of their bases. A pentagonal prism is shown in the example. The faces that are not bases are rectangles.



pentagonal prism

A **pyramid** has only one base. A pyramid is named by the shape of its base. The other faces are triangles which all meet at one point.



square pyramid

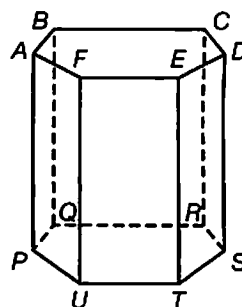
Example

- a. Name the type of figure shown at the right.

The figure is a hexagonal prism.

- b. How does the number of edges compare with the number of sides of a base?

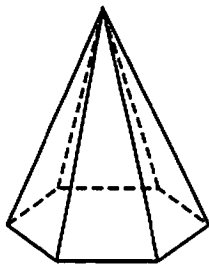
There are 18 edges. Each base has 6 sides. In a prism, the number of edges is 3 times the number of sides of a base.



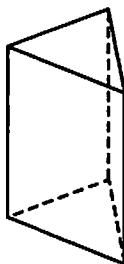
Guided Practice

Tell what type of figure is shown.

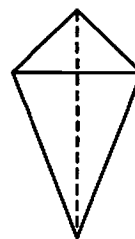
1.



2.

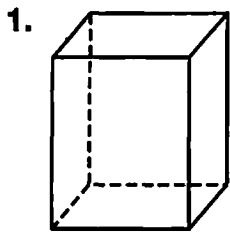


3.



SKILL 14: Practice

Name the type of figure. Tell how many vertices, faces, and edges it has.

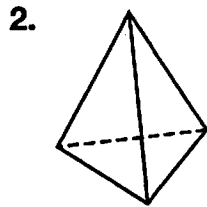


Type: _____

Vertices: _____

Faces: _____

Edges: _____

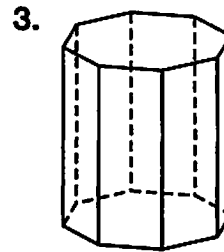


Type: _____

Vertices: _____

Faces: _____

Edges: _____

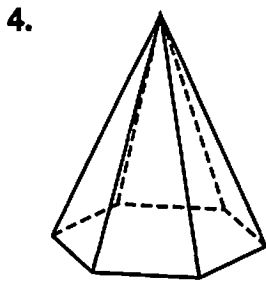


Type: _____

Vertices: _____

Faces: _____

Edges: _____

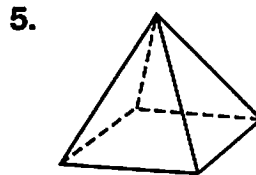


Type: _____

Vertices: _____

Faces: _____

Edges: _____

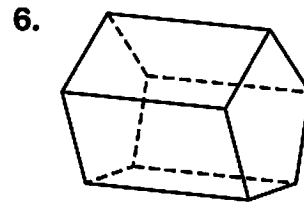


Type: _____

Vertices: _____

Faces: _____

Edges: _____



Type: _____

Vertices: _____

Faces: _____

Edges: _____



7. How many faces does an octagonal pyramid have?

A 10

C 8

B 9

D 7

Skill 14

8. What term describes two lines that do not lie in the same plane?

Skill 13

F intersecting

H skew

G perpendicular

J parallel