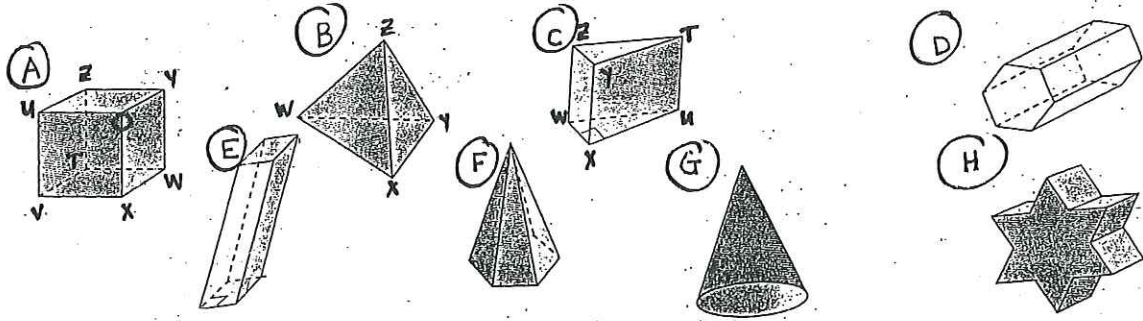


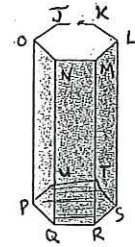
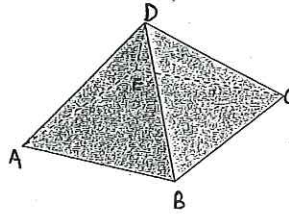
#1-3, Use the figures below to answer the questions.



1. Which objects are oblique?
2. Which objects have triangular lateral faces?
3. Which objects could have cross-sections congruent to the base(s)?

#4-10, Use the two solids below to answer the questions.

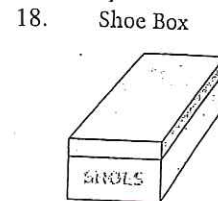
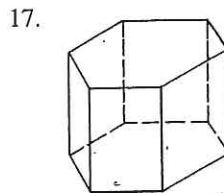
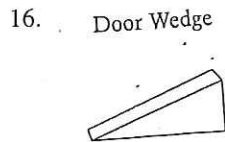
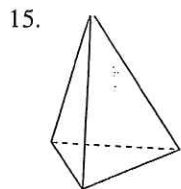
4. Name the base(s) of the *prism*.
5. Name the lateral edges of the *pyramid*.
6. How many vertices does the *prism* have?
7. How many total edges does the *pyramid* have?
8. The base of the *pyramid* is a _____.
9. The lateral face of a *prism* will always be what shape? _____
10. Name the vertex of the *pyramid*.



#11-14, Use Euler's Formula to find the missing number.

- | | | | |
|--|---|---|---|
| 11. Faces: _____
Vertices: 6
Edges: 12 | 12. Faces: 5
Vertices: _____
Edges: 9 | 13. Faces: 20
Vertices: 12
Edges: _____ | 14. Faces: _____
Vertices: 10
Edges: 15 |
|--|---|---|---|

#15-18, Give (2) precise geometrical names for each solid.



#19-22, Draw each of the following.

19. a pentahedron

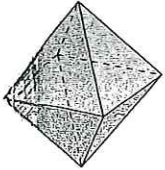
20. Hexagonal pyramid

21. Triangular prism

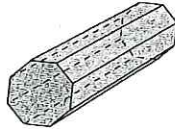
22. A cylinder with a cone flush against one base.

#23-25, Count the number of faces, edges and vertices for each object.

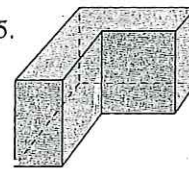
23.



24.



25.



#26-28 Find the midpoint of the two given points AND the distance between them.

26. (1, 2, 3) (4, 5, 6)

27. (0, -3, 5) (4, -2, -10)

28. (-2, -4, 7) (2, 3, 11)

#29 Match the object with its Geometrical name at right. You may not use a name more than once.

- | | |
|---------------------------------|-----------------------|
| a. Die | a. Cylinder |
| Tomb of Egyptian rulers | b. Cone |
| Holder for a scoop of ice cream | c. Square prism |
| Wedge or doorstep | d. Square pyramid |
| Box of breakfast cereal | e. Sphere |
| Bowl | f. Triangular pyramid |
| Ingot of silver | g. Octagonal prism |
| Birthplace of a bee | h. Pentagonal prism |
| Stop sign | i. Triangular prism |
| U.S. military headquarters | j. Trapezoidal prism |
| Moon | k. Rectangular prism |
| Can of tuna fish | l. Heptagonal pyramid |
| | m. Hexagonal prism |
| | n. Hemisphere |

