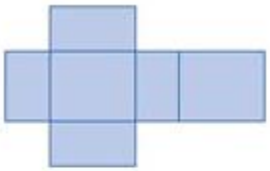
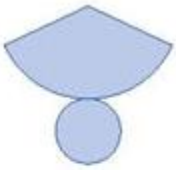
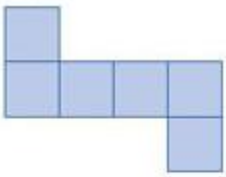
Assignment: Textbook p745 #1, 5-12, 16-36

1. **Vocabulary** A ___?___ has two circular bases. (*prism*, *cylinder*, or *cone*)

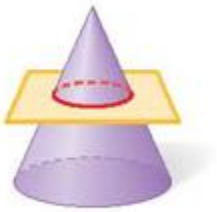
**Describe the three-dimensional figure that can be made from the given net.**

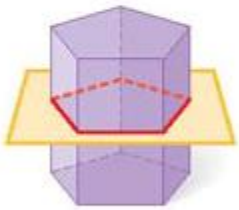
5. 

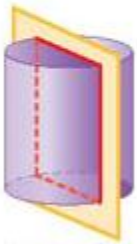
6. 

7. 

**Describe each cross section.**

8. 

9. 

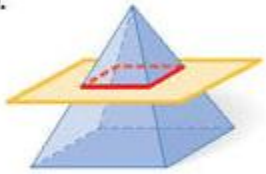
10. 

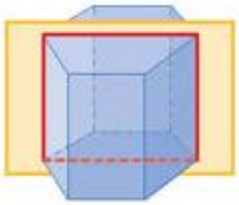
**Art** A sculptor has a cylindrical piece of clay. How can the sculptor slice the clay to make a slice of each given shape?

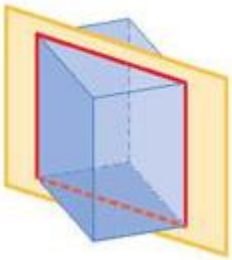
11. a circle

12. a rectangle

**Describe each cross section.**

19. 

20. 

21. 

**Architecture** An architect is drawing plans for a building that is a hexagonal prism. How could the architect draw a cutaway of the building that shows a cross section in the shape of each given figure?

22. a hexagon

23. a rectangle

**Name a three-dimensional figure from which a cross section in the given shape can be made.**

24. square

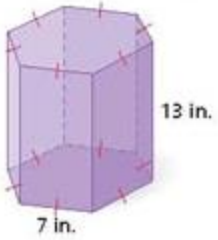
25. rectangle

26. circle

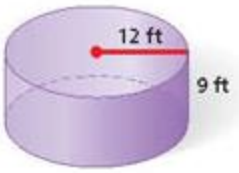
27. hexagon

**Write a verbal description of each figure.**

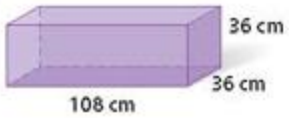
**28.**




**29.**




**30.**




**Draw and label a figure that meets each description.**

**31.** rectangular prism with length 3 cm, width 2 cm, and height 5 cm

**32.** regular pentagonal prism with side length 6 in. and height 8 in.

**33.** cylinder with radius 4 m and height 7 m

**Draw a net for each three-dimensional figure.**

**34.**

**35.**

**36.**