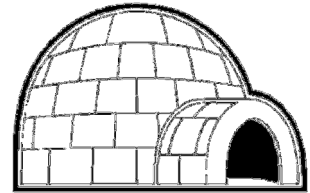
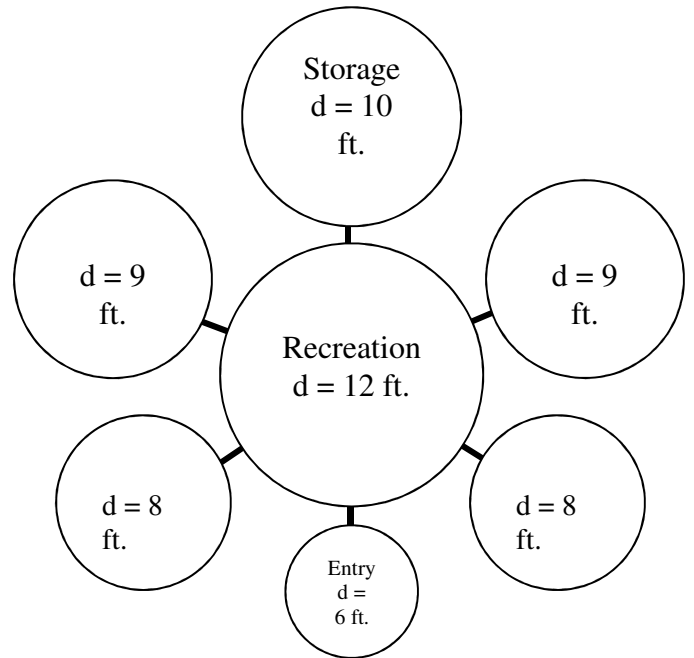


The Inuit are Native Americans who live primarily in the arctic regions of Alaska and Canada. The Inuit word *iglu* means “winter house”. Later the term came to mean a domed structure built of snow blocks, as shown in the figure at the right.

Several families would build a cluster of iglus that were connected by passageways and shared storage and recreation chambers. Use the drawing to answer the following questions. Use 3.14 for pi.



1.	List the radius of each of the chambers.
2.	Determine the circumference of each chamber.
3.	Determine the area of each chamber. Then calculate the total area of all chambers.
4.	Estimate the distance for the front of the entry chamber to the back of the storage chamber.
5.	If Mr. Mangham runs around the storage iglu 5 times, how far will he run?



6. A person wishes to place a covering on the floor in the entry, recreation, and storage rooms. If coverings are sold in 40 square feet pieces, how many pieces will she need?

7. If the radius of one of the iglus is tripled, then the area of the iglu is multiplied by....