

Try This At Home

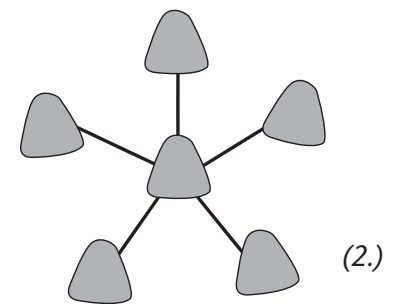
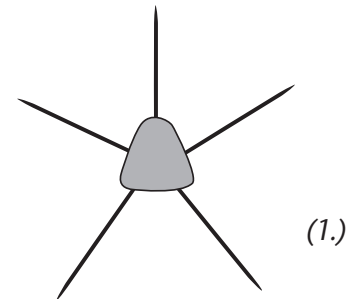
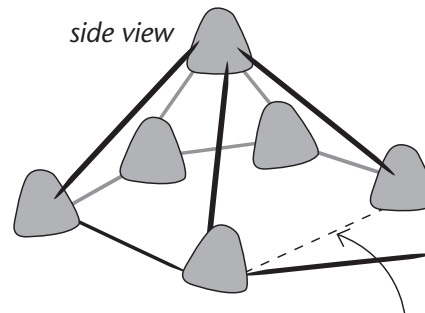
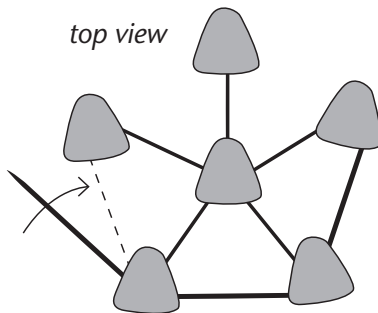
Geo-Ball (an icosahedron)

What You Need

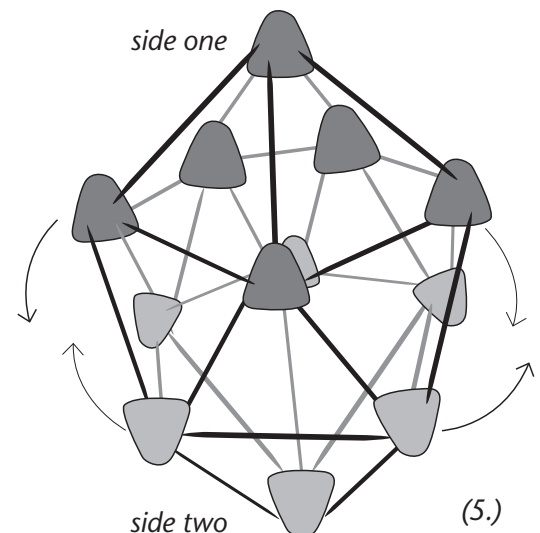
- 30 toothpicks
- 12 gumdrops

What to Do

1. Take one gumdrop and create a starfish, or a 5-sided star with 5 equally spaced toothpicks.
2. Put a gumdrop (5 in total) on each end of each toothpick
3. Connect the outer gumdrops with toothpicks, creating 5 triangles. In order to secure the last two gumdrops with a toothpick, you must push up on the centre gumdrop toward the ceiling like an umbrella. As you do this, you should be able to connect them with ease.



4. Repeat steps 1,2,3 to create an identical shape
5. Now connect the two shapes together. Turn them on their sides with the centre gumdrops facing out. Connect the shapes by placing a toothpick across two gumdrops in a zigzag or diagonal. Do not connect them directly across from one another. As you connect them making a zigzag, note that you are creating a network of triangles. Continue until all toothpicks are used.
Hint: each gumdrop should have five toothpicks in it.



6. Congratulations, you have created a geo-ball or an icosahedron, a twenty-sided geometric figure.