

## How to Use a Coffee Filter to Draft a Mariner's Compass©

by Debby Kratovil

A large coffee filter has a 9-1/2" diameter (approximately)

Press coffee filter smooth with warm iron and fold into equal sized halves, quarters and eighths as indicated by the dashed lines A-H. Your circle is now divided into eight equal sized wedges with the internal angle being 45 degrees. Use a pen or pencil to draw in these lines.

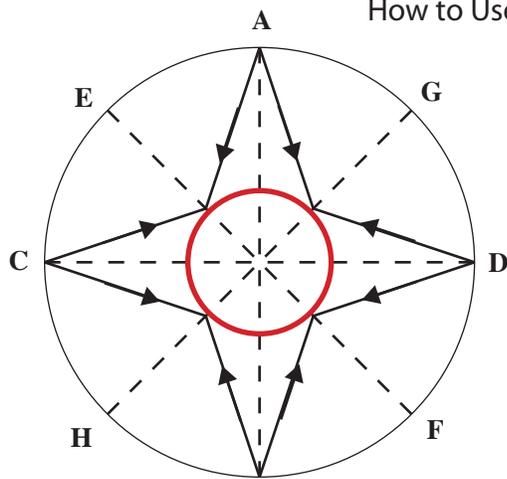


Diagram 1

B

(Find a jar or juice can lid or anything around your house that comes close to 3" diameter.) Trace it onto a piece of freezer paper and cut out. Center it over the coffee filter circle and trace around it as shown in Diagram 1. Take a ruler and connect Point A to the edge of the circle where it intersects Line E-F and Line G-H. The arrows on those two lines illustrate this. Connect Point C to the edge of the small circle where it intersects Line E-F and Line G-H. Continue as shown using Point B to Line G-H and Line E-F; and Point D to Line G-H and Line E-F. Continue as shown in Diagram 2, joining points E-H in the same

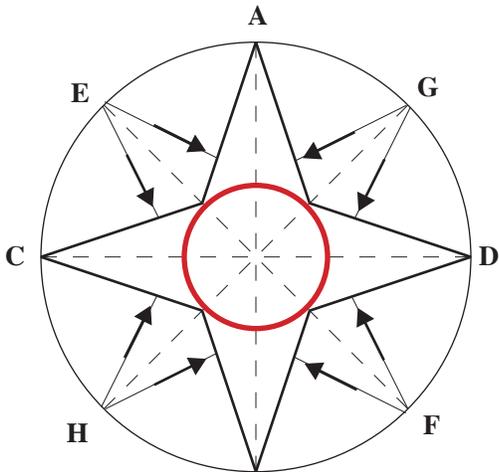
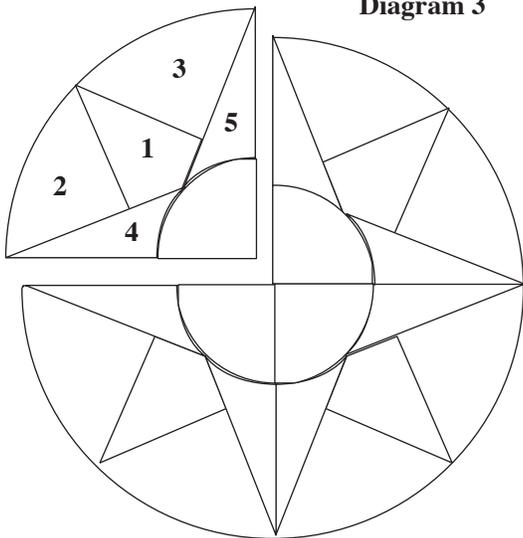


Diagram 2

B

Diagram 3 shows how one quarter unit is separated from the others. I've numbered the pieces which can then either be cut apart and used as templates (adding 1/4" seam allowance to each) or you can foundation piece the quadrant/quarter circle right on the paper. How to handle the large center circle? I leave that for the last. After I piece the four quadrants, I then stitch them together to make the large circle. I appliquéd the smaller circle to the center and then trim the excess fabric from underneath.

Diagram 3



NOTE: Any circle will do. Home coffee makers typically have circular filters between 6" and 9-1/2". Check out your church or synagogue's kitchen for the larger ones (Ask permission first!)