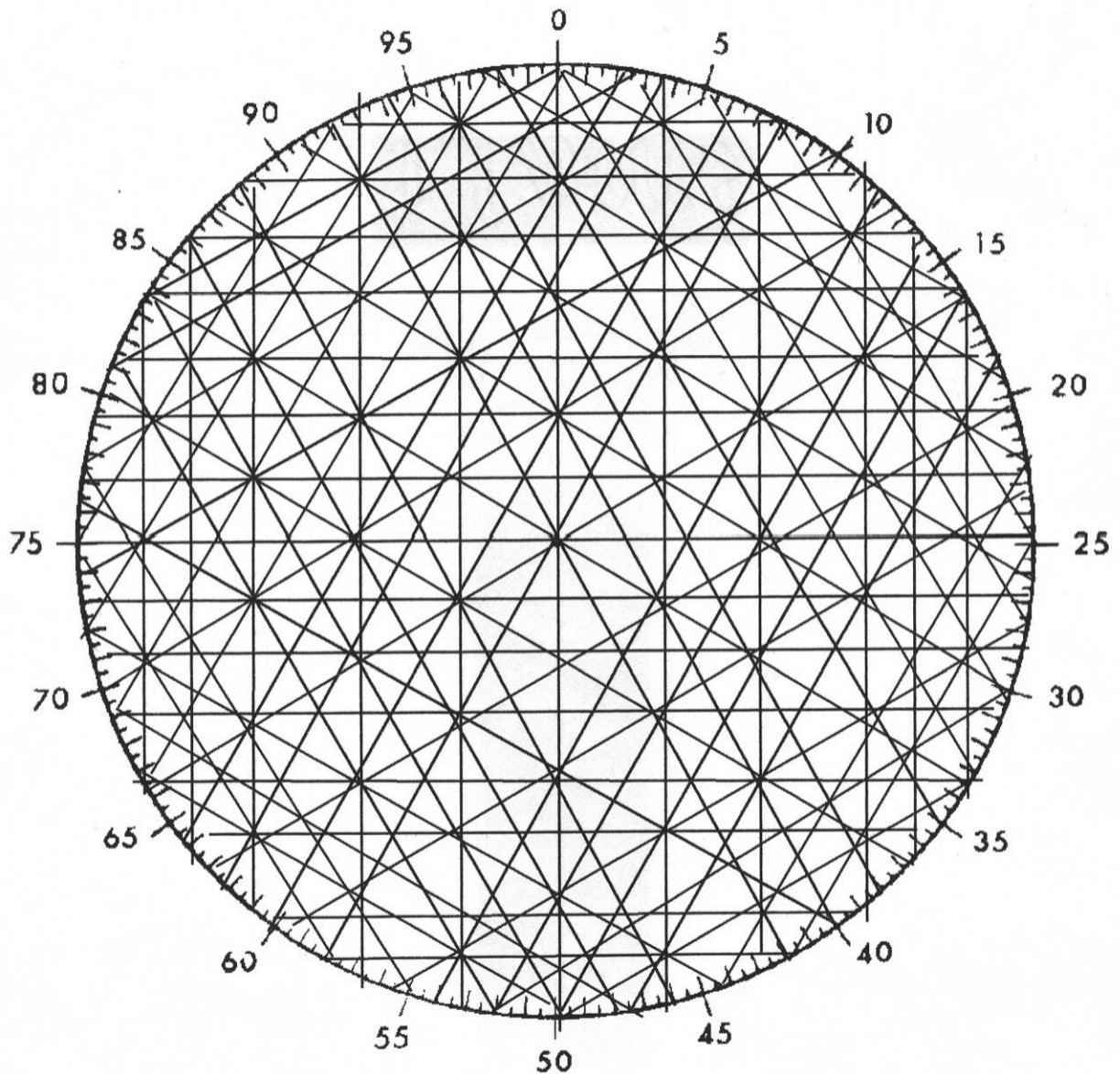


Geometry Through Art

Copier Master Worksheet designed by Norman Shapiro, copyright pending
CM051195

Dodecagon Grid



Suggested Dodecagon Grid Activities:

1. Visualize as many different polygons as you can:
How many different kinds of triangles? Can you identify them by name?
Polygons with 4 sides. 5 sides. Six sides. More.
2. Locate polygons with the same center as the circle.
(Concentric)
3. Find different sizes of each kind. (similar polygons)
Find the largest.
4. How many congruent polygons can you identify?
How many of each size?
5. Can you make a 'kaleidoscopic' design?

(Highlight the diameters which will divide the circle into six sectors. You will find all the sectors are congruent in both shape and pattern.)

These patterns are hexagonal, like snowflakes.

6. Make copier reproductions of student work for color interpretations.

A good rule in coloring : All congruent shapes should be rendered in the same color. The only exception being those that are adjacent. (share the same line boundary.)