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How many folds does it take to cut out a regular N-GON – what angles do you make the folds and the cut at?

Extra Extension: How many different-looking crease patterns that use the minimal number of folds make the same regular polygons?



















DEPENDENCIES DEPENDENCIES1) Why must the degree be even? 2) A Special Case: A 4-degree vertex: prove that opposite segments must each be a pair of angles that sum to 180. 3) Generalize to 2n-degree vertices 4) Why does M-V = +/- 2

FOLDING A FRACTAL

Instructions:

- Take a strip of paper
- Fold it in half to the right
- = Fold the result in half to the right
- ...etc..
- Unfold, but don't flatten the strip correct each crease until it is exactly a right angle.

Exercise:

What will the pattern of Mountain vs. Valley creases be?

















