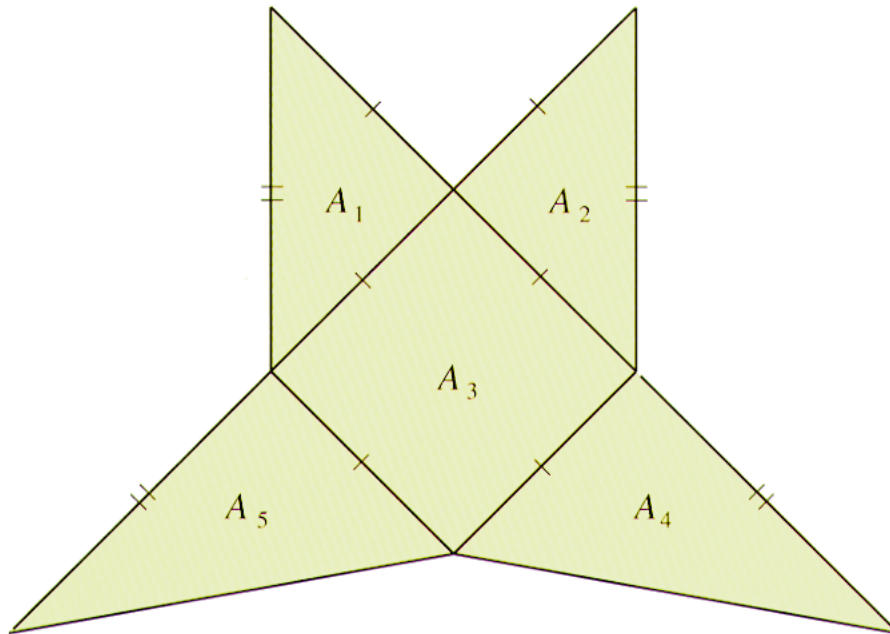


The Curious Cube

Problem-of-the-Week

The Problem

The pattern shown below can be used to make a cube. Figure out how this can be done.



Strategies and Hints

1. Copy the figure and fold it to make a solid shape. Describe the shape you get. Which vertex of this shape is probably a corner of the completed cube? Why?
2. How many patterns will you need to make the cube?
3. One view of the completed cube looks like the drawing at the right. Make a sketch to show what the cube looks like from the opposite vertex. (Face C_3 should be on the bottom.)
4. Where are the faces A_4 , A_5 , B_4 , B_5 , C_4 , and C_5 ?

