



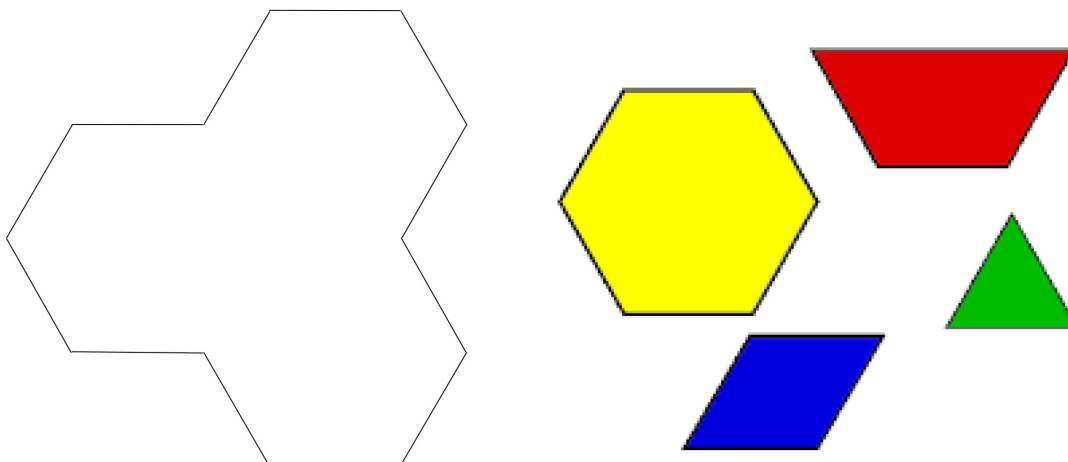
Problem of the Week

Problem B

A Fitting Solution

The figure below can be 'tiled' (that is, it will be completely covered with no spaces) by a variety of arrangements of pattern blocks of different shapes.

- Using exactly 10 pattern blocks, how many of each shape are required to completely cover this figure?
- What fraction of the total area of the figure is covered by hexagons? by trapezoids? by rhombuses? by triangles? Express each of your answers reduced to lowest terms.
- In what other ways can you cover this figure with the four shapes from the pattern blocks (but not necessarily 10 blocks)?



To Think About

Each of the hexagon, trapezoid and rhombus can be covered completely by a whole number of triangles. How many triangles are needed for each of the shapes?

STRANDS GEOMETRY AND SPATIAL SENSE, NUMBER SENSE AND NUMERATION

