



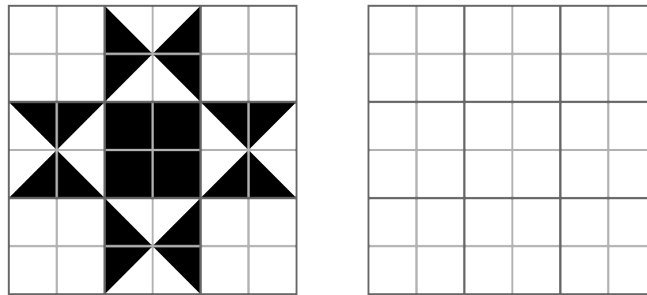
Problem of the Week

Problem B

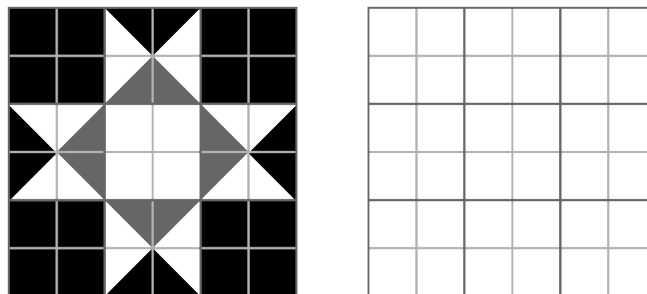
Quilt Designs for Barns

Sometimes people decorate their barns with quilts. These barn quilts are often designed in a square grid with a variety of colours and patterns, and they usually have symmetry in such a way that if they're rotated they will look the same. In the 6 by 6 grids below, you are going to explore and create some barn quilt designs. In each part, you can add straight lines as needed.

- (a) What fraction of the barn quilt design below is black, and what fraction is white? In the blank grid, design another barn quilt using two colours and the same fractions.



- (b) What fraction of the barn quilt design below is black? Grey? White? In the blank grid, design another barn quilt using three colours and the same fractions.



- (c) What fraction of the following barn quilt design below is black? Grey? Striped? White? In the blank grid, design another barn quilt using four colours and the same fractions.

