

Shifting Shapes

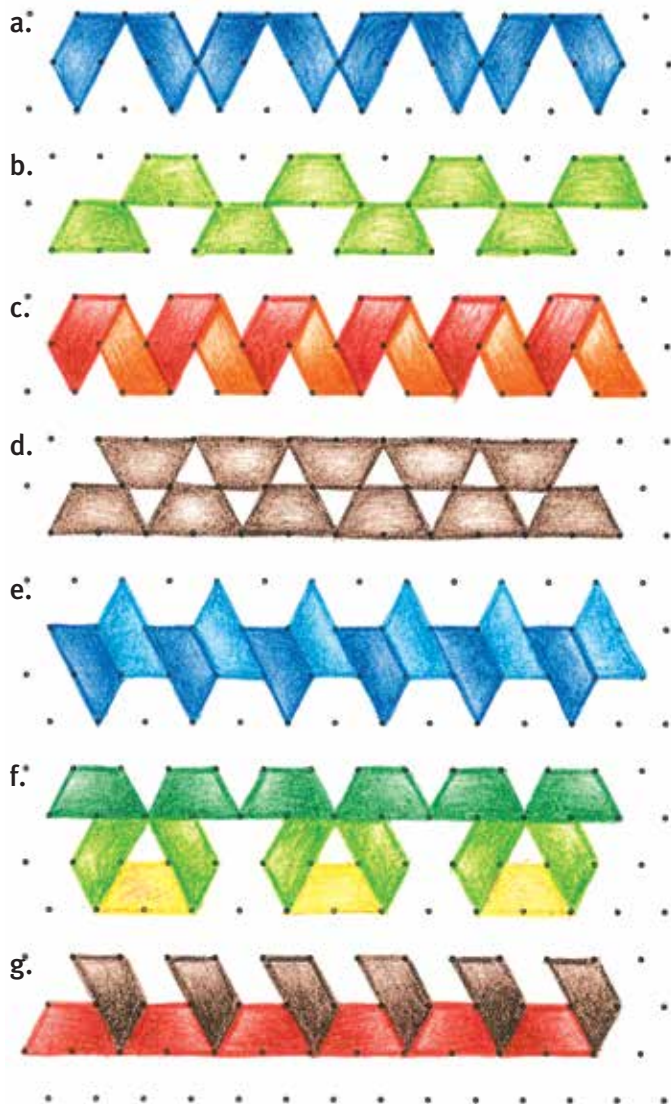
You need: trapezium pattern blocks, isometric dot paper

ACTIVITY

1. Tania used a trapezium pattern block to make these designs, then copied them onto isometric dot paper. Describe each of them, using the language of transformations.

The language of transformations

Transformation	Details to give
Translation	Distance and direction
Reflection	Axis (mirror line)
Rotation	Centre, angle, and direction



2. Follow these instructions and draw the pattern:
 - Start with a trapezium lying on its longest side.
 - Rotate it 120 degrees clockwise about the bottom right-hand vertex.
 - Rotate it 120 degrees clockwise about the same vertex. Repeat.
 - Translate it 4 units to the right. Repeat the whole sequence twice.
3. Make a different strip pattern using the trapezium. Write a set of instructions for making it.

