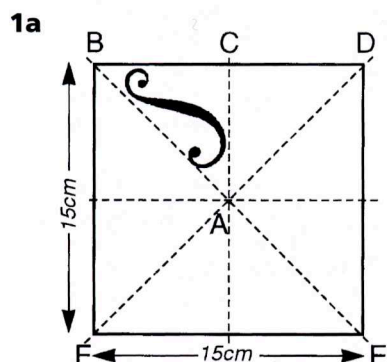


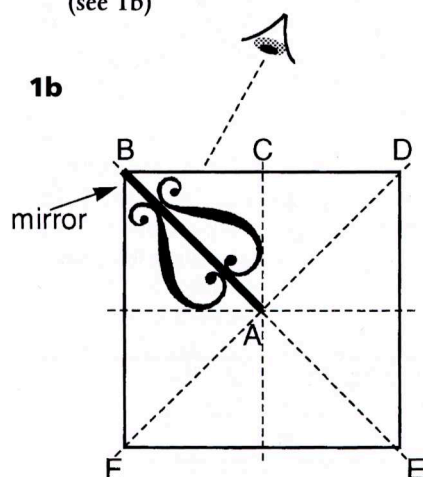
## STARTING A PROJECT ON MIRROR-IMAGED DESIGN

You will need: drawing paper and pencils, tracing paper and small hinged mirrors (make-up or handbag mirrors obtainable from chemists can be used). Younger pupils can cope with the task as long as they keep the motif very simple, as in diagram 1a.

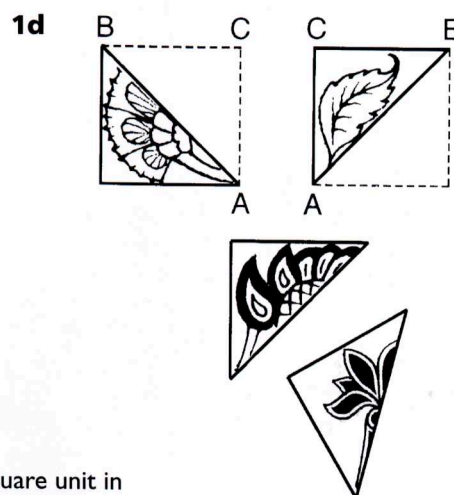
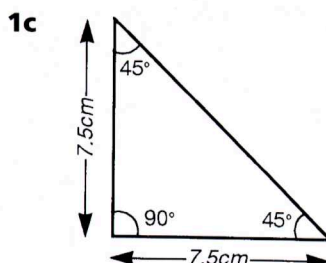
Draw a square on the paper approximately 15cm x 15cm. Draw lines dividing the square along both diagonals, then horizontally and vertically. You now have eight triangles radiating from the centre of the square. Label them A, B, C, D, E and F as shown. In triangle ABC, draw a flowing, scrolling motif. (see 1a)



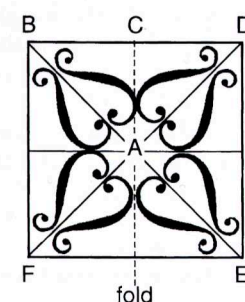
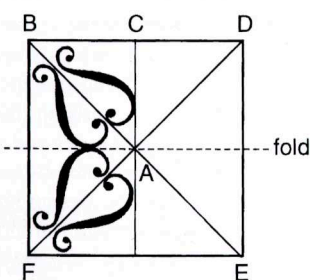
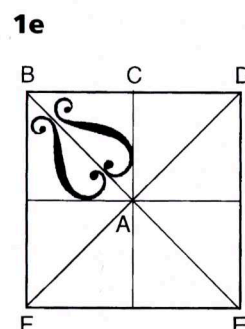
Hold a small flat mirror vertically along the line AB and look into it from the position shown. You will see the mirror image reflection of the motif. Make the motif fill the whole of the top left hand square. Next hold a hinged mirror open at  $45^\circ$  so that the hinge is at A and the sides are along AB and AC. Look into the space between the mirrors and you will see the reflected completion of all eight triangles making up the square. The triangle, although it is only one eighth of the square, contains all that is required to build a complete unit. (see 1b)



Draw a number of isosceles triangles the same size as ABC (see 1c) with a different motif in each. The motifs can be made more complicated if you wish (1d). Repeat the process with the hinged mirror to see how a complete square will look. This process allows you to select the best motif from those drawn at the Museum.



Next, draw the complete square unit in full on tracing paper. Use the simple motif from 1a for this first attempt. Use a square of tracing paper the size of BDEF. Fold the tracing paper very accurately in half, half again, then corner to corner to create folds as in diagram 1a. Press the creases in place then open the paper out flat. Trace the motif from 1a into triangle ABC. Fold the tracing paper in half along the diagonal BAE with the drawing on the outside. Lay it so that the motif is face-down on the desk and very carefully copy the design through onto the surface facing you. Open it out: you now have a quarter of the square filled.



Fold EF up to BD, again with the drawing on the outside. Lay it drawing-side down and trace the motif through again: you now have two quarters filled. Fold DE to BF and you can trace the two last quarters, completing the entire area. Go over the lines carefully with a black pen if you wish, to make them more permanent. Once you have understood this sequence, you can repeat it with another square of tracing paper and your favourite motif.

If you back the tracing with white paper it can be photocopied several times. Alternatively, it can be transferred several times (using carbon paper or by pressing through graphite scribe, etc.) on to drawing paper in order to develop the progression for a specific printing project.