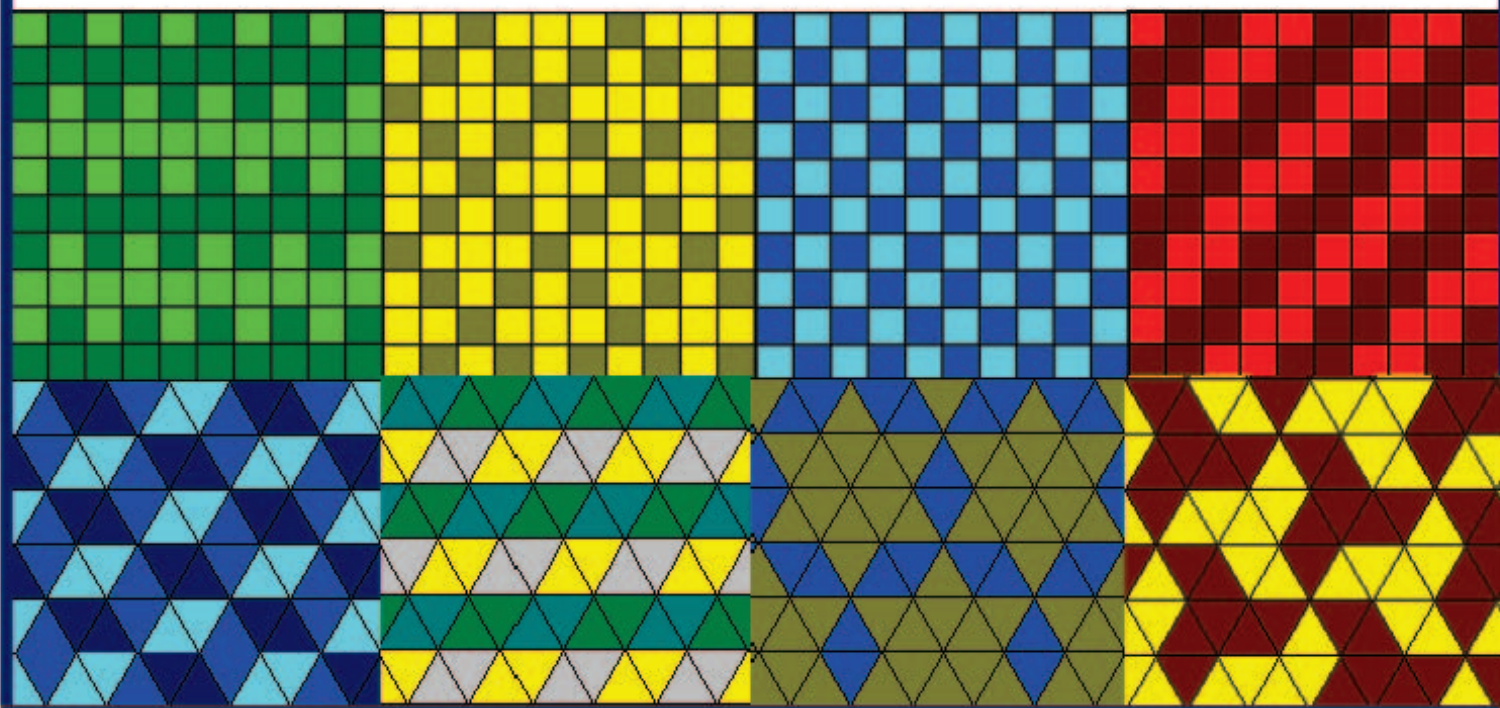


TESSELATING



Intermediate Phase - Gr 4 - 6

SYMMETRY



SPECIAL COPYRIGHT PERMISSION - sufficient copies may be made for 1 class

TEACHER'S GUIDELINES

This book can be used in different ways:

- 1.) Each page can be cut in half (A5 size) and mounted on cardboard. The worksheets can then be used as work cards. The children can work from the tessellation work cards onto blocked paper and the symmetry workcards can be traced or redrawn.
- 2.) The pages can be photocopied and be used as worksheets.
- 3.) The books can be photocopied and made up into workbooks for each child. The children can then work in their own time and at their own pace. It can also be used for extension work.

TESSELLATION INSTRUCTIONS:

To tessellate (or tile) means to fill a plane surface with a specific shape in such a way that no gaps are left and none of the shapes overlap. The shapes may be rotated by NOT turned the wrong way around.

Each page has been divided into 2 sections. A polygon has been drawn in the top right-hand corner of each section.

Draw a tessellation of each polygon in the relevant blocked section, to form an interesting pattern.

Divide each blocked section in half and try to draw a tessellation of each polygon in at least 2 different ways.

Use 2 or more colours to shade in the polygons in order to form different and interesting patterns.

Where 2 shapes are drawn in the blocked section, you must use both shapes to tessellate the surface.

Where no shapes are drawn, draw your own and experiment with whether they will tessellate or not.

If you are not sure whether a polygon will tessellate in a certain way, cut out a few samples of each polygon to practice tessellating with, before you draw them in.

Blocked paper can also be used to practice on.

Sample Book

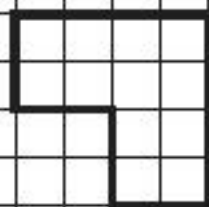
Sample Book

Sample Book



Sample Book

Sample Book



Sample Book



Sample Book

Make your own tessellat!

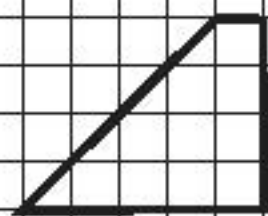
Sample Book

Sample Book

Sample Book



Sample Book



INSTRUCTIONS FOR SYMMETRY

Where the worksheets have a dotted line indicates a fold.

The children must complete the worksheets.

If there are no dotted lines, draw the lines of symmetry to show the shape has.

If the blocks have no lines of symmetry:

- draw pictures of objects that have either one or two lines of symmetry. They can use examples from the real world.
- draw letters (or shapes) that have either one or two lines of symmetry.
- draw diagrams of shapes that have either one or two lines of symmetry.

worksheet to

and give the

Sample Book



A

C

B

D

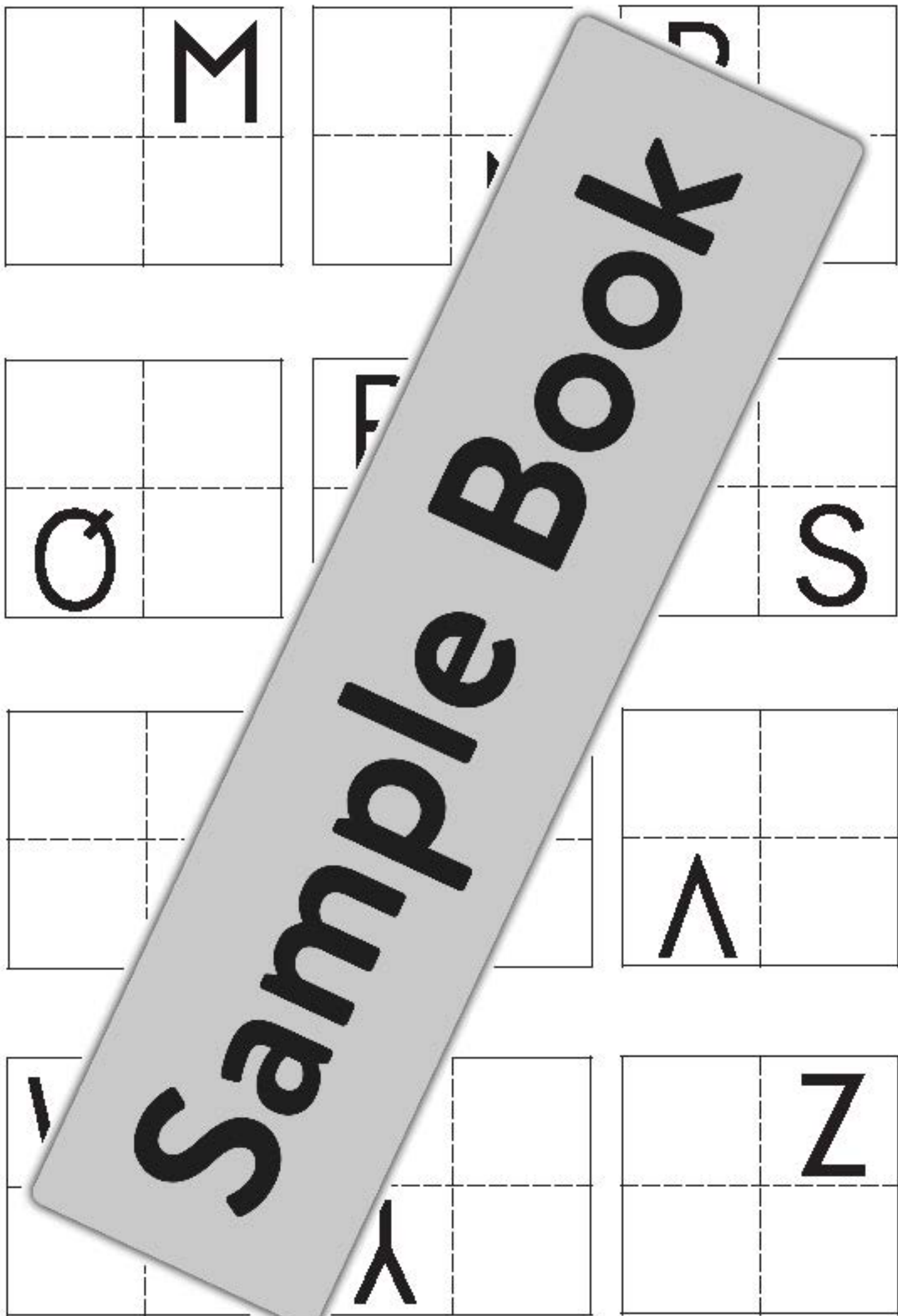
G

I

K

J

Sample Book



RTKE

DOV

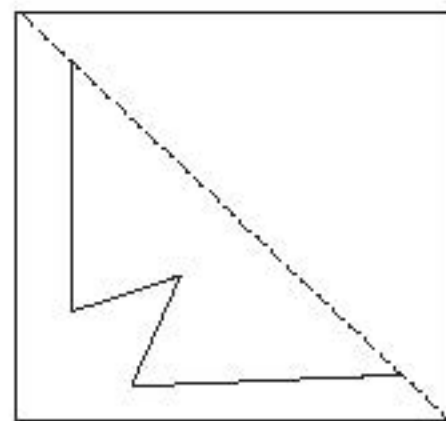
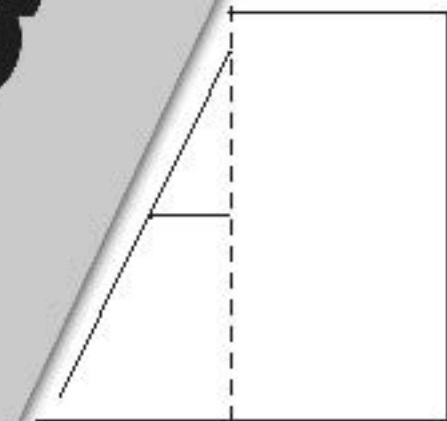
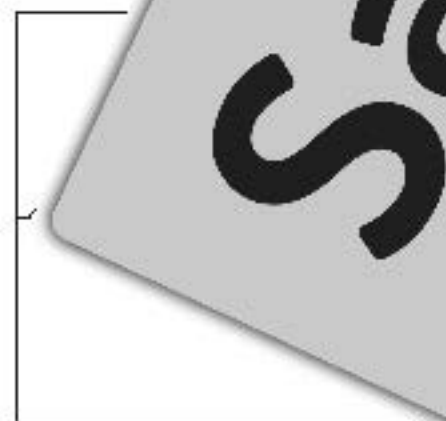
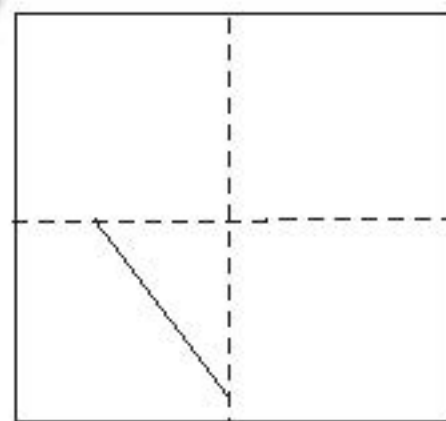
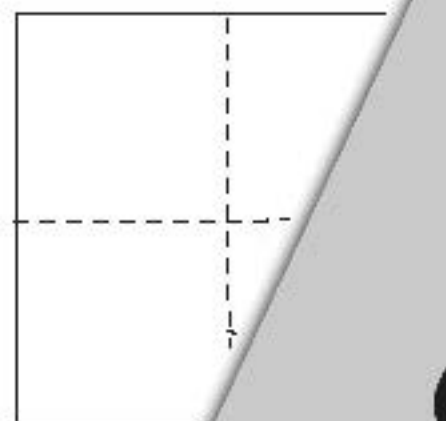
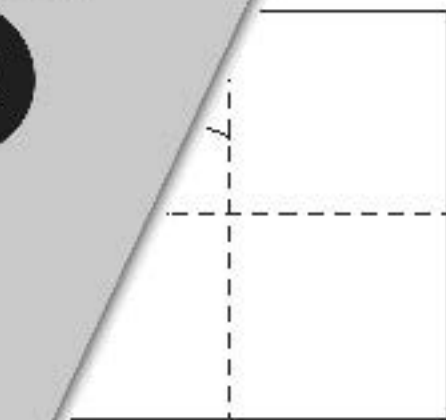
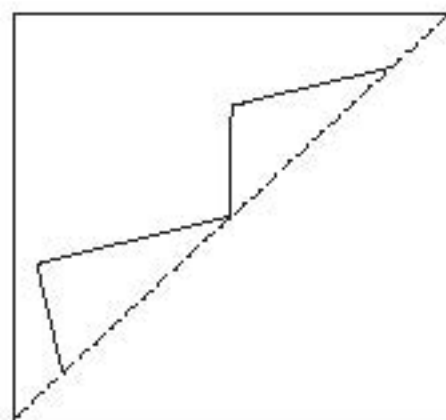
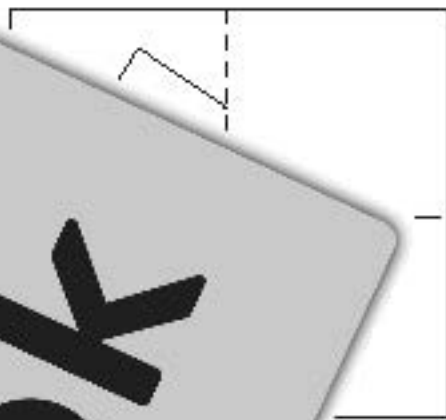
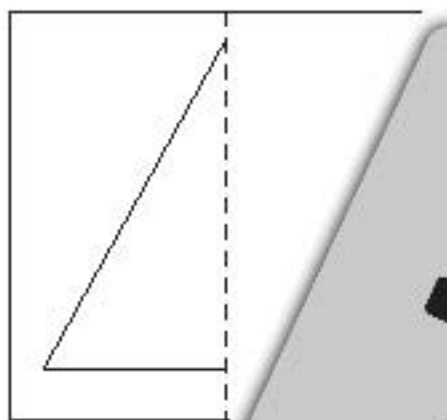
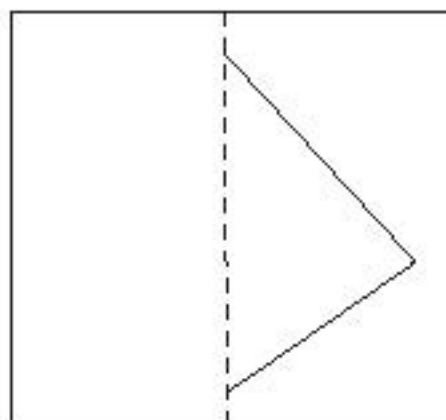
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CODE

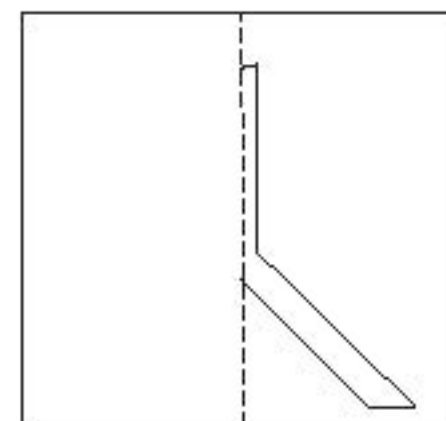
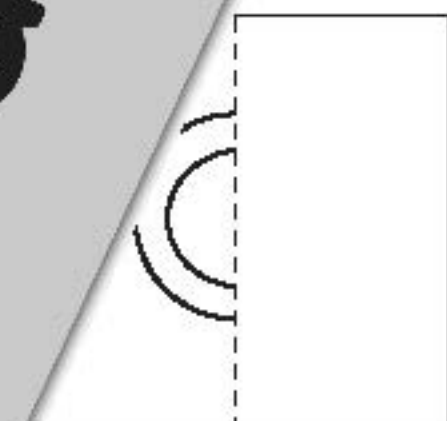
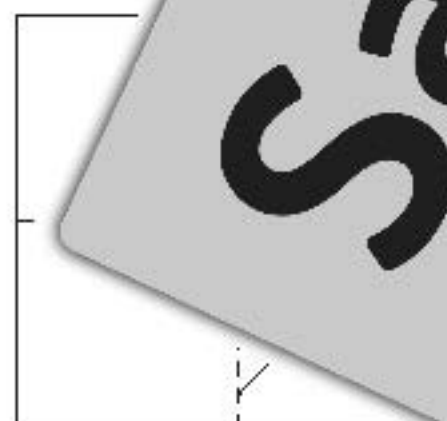
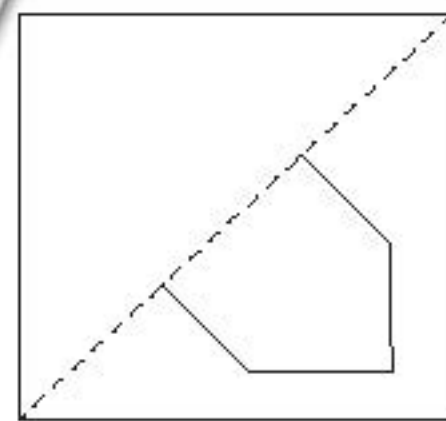
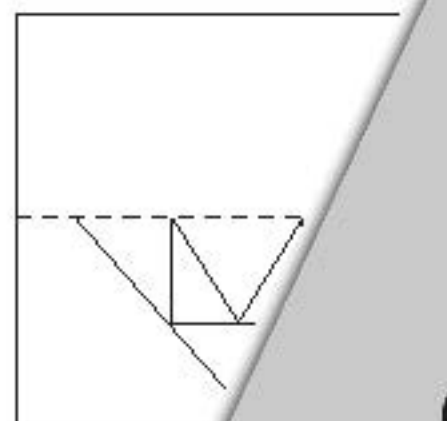
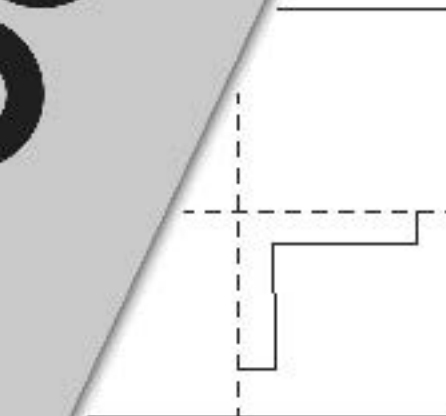
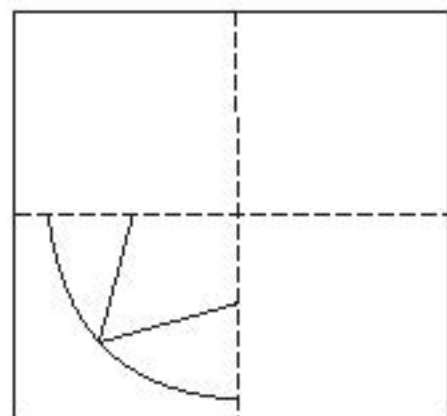
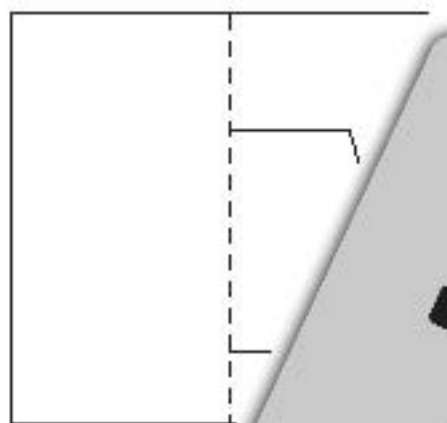
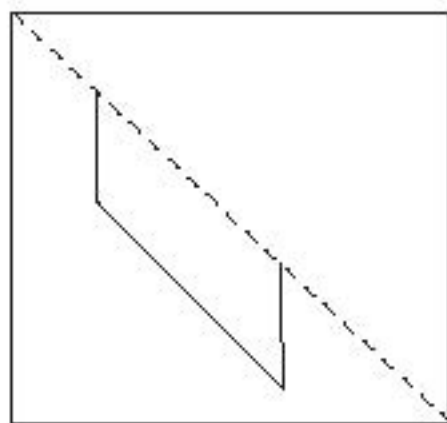
PTD

Sample Book

Sample Book



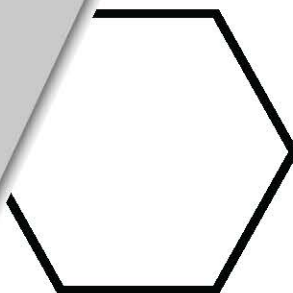
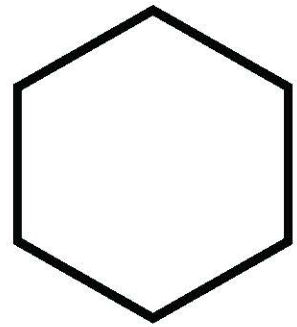
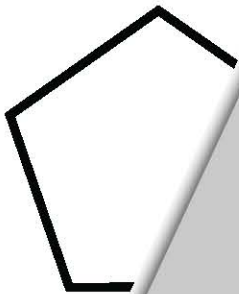
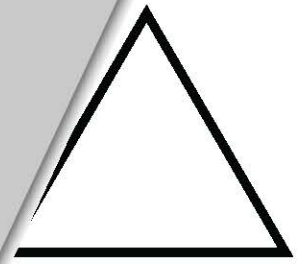
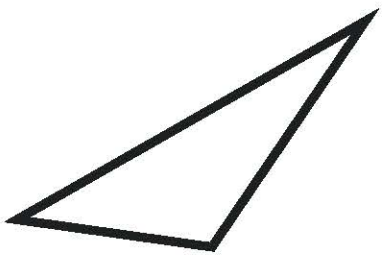
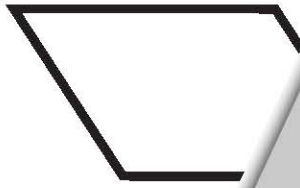
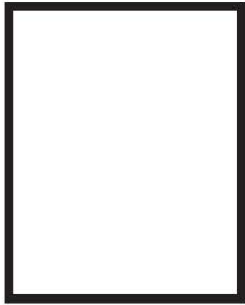
Sample Book

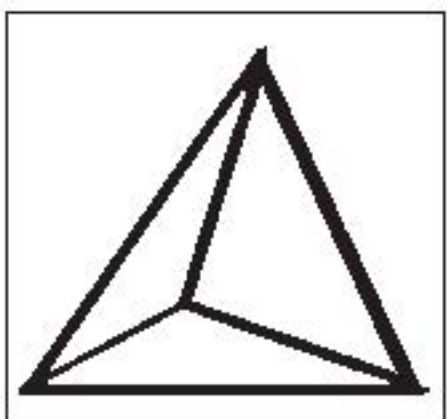
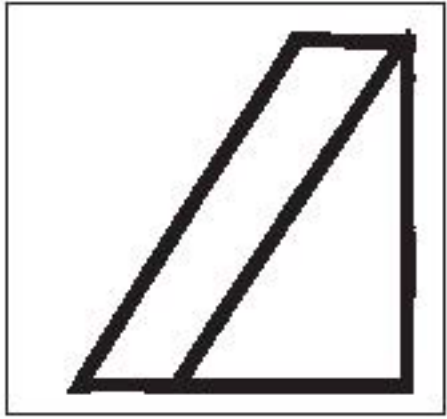
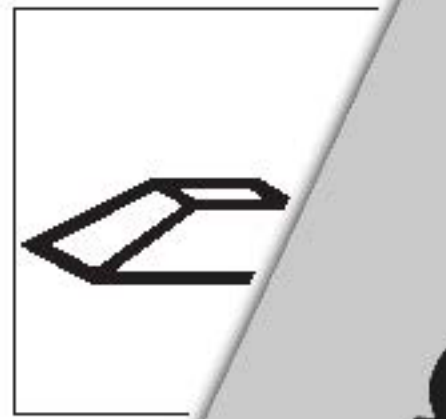
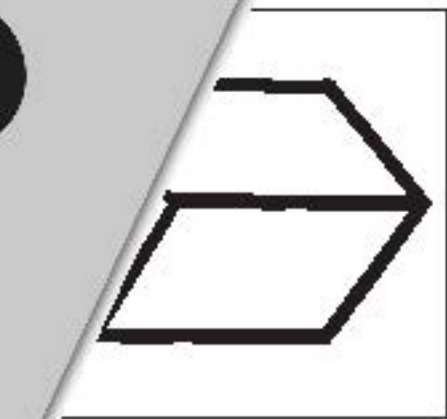
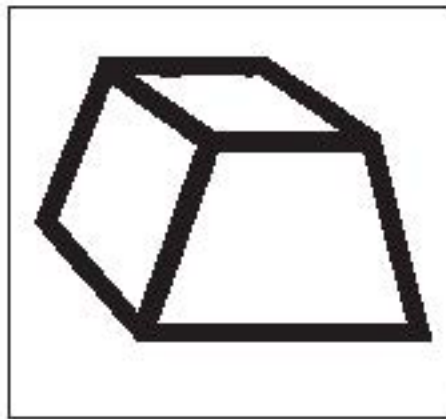
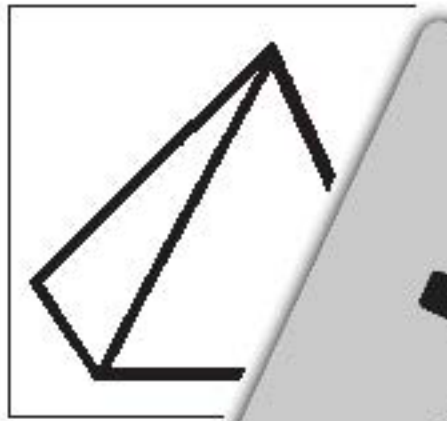
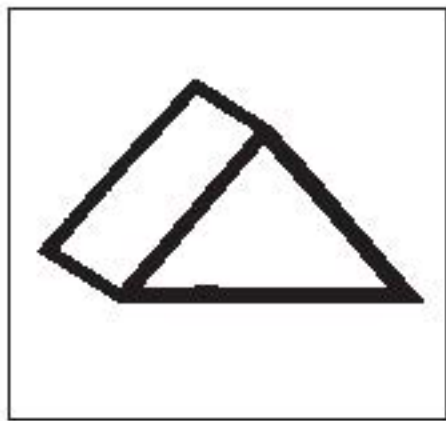




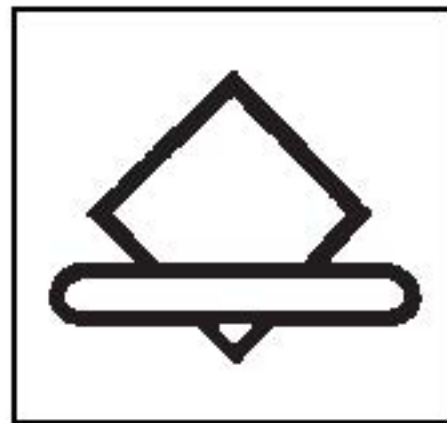
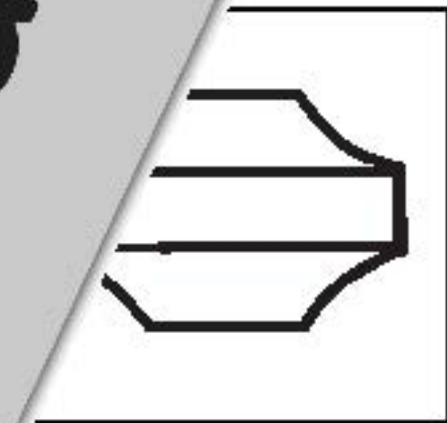
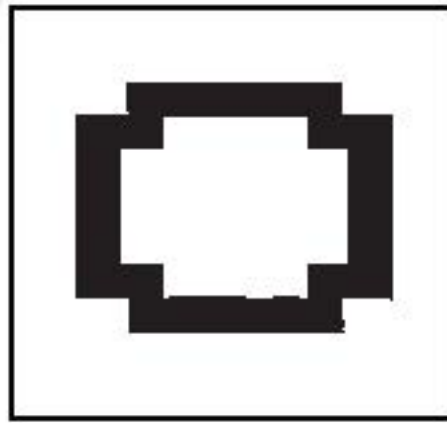
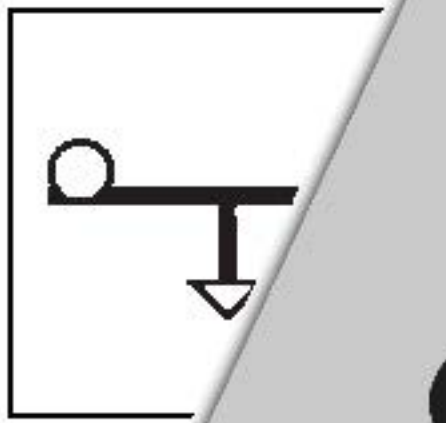
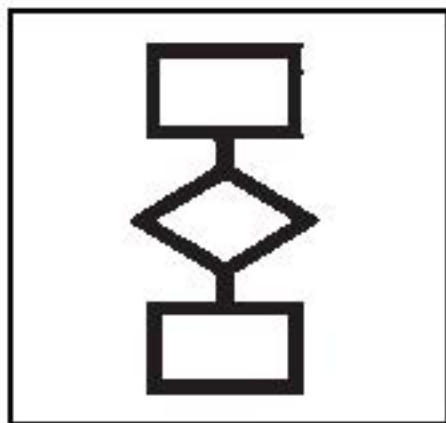
Sample Book

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