1 Some of the following are symmetrical shapes. Identify which shapes a
symmetrical. Then fill in the space.

A

B

C

D

E

F

G

H
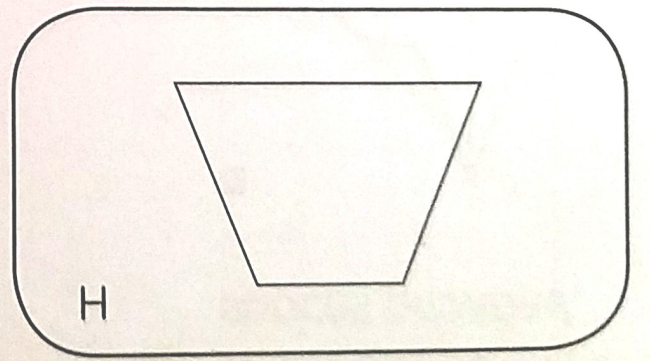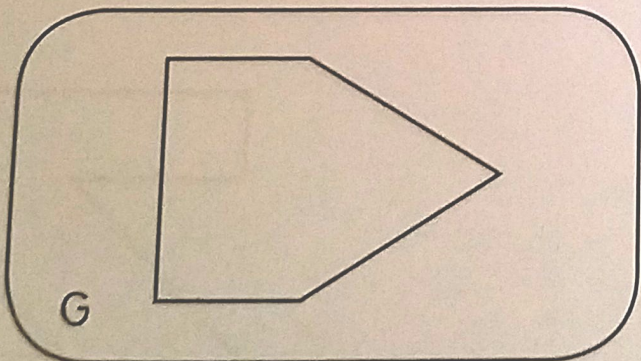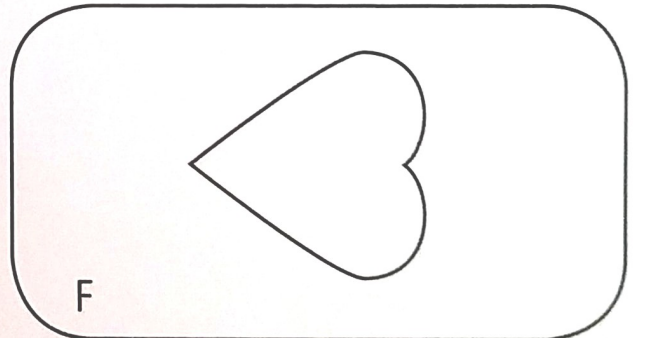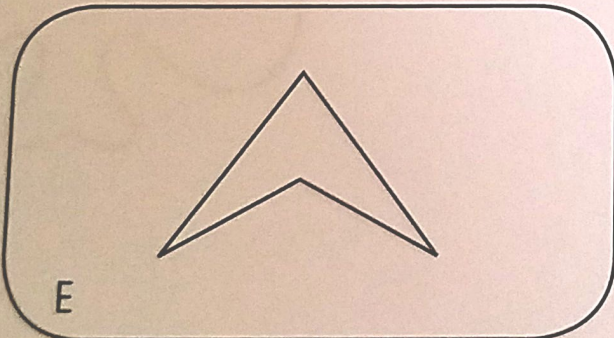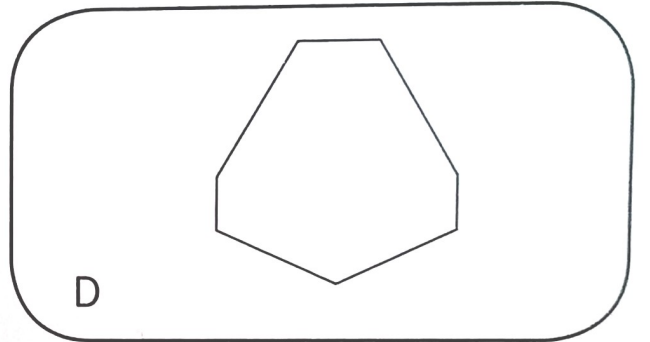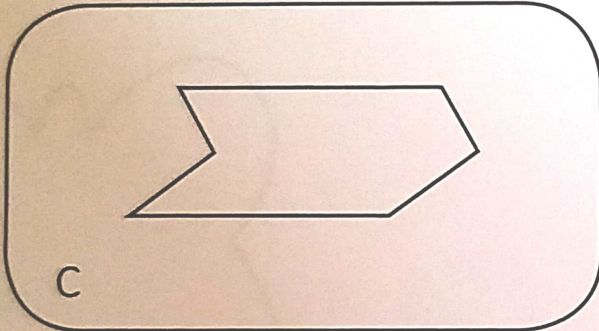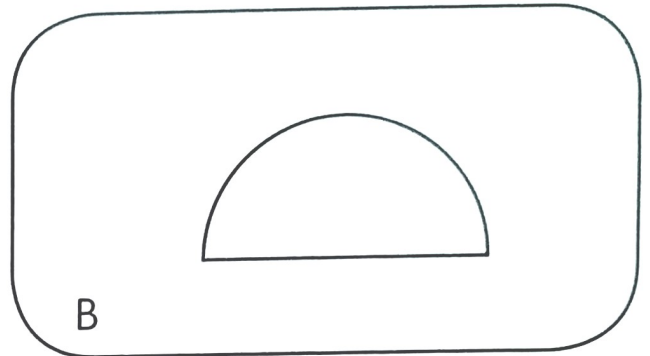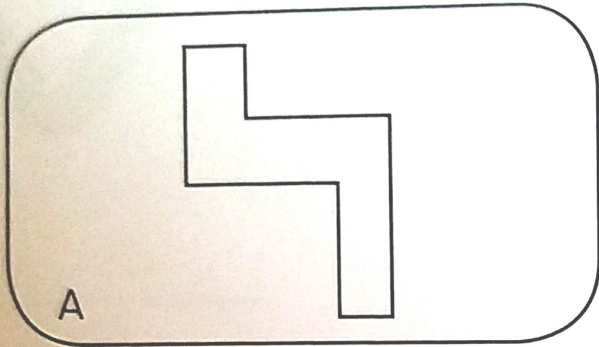
Shapes ___B, D, E, F, G, H___ are symmetrical.
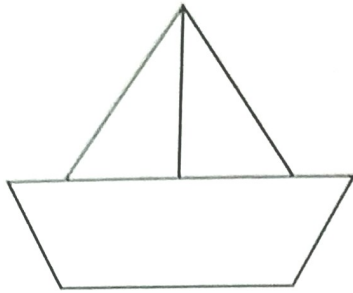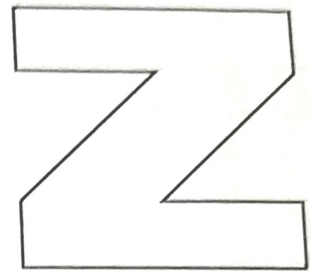
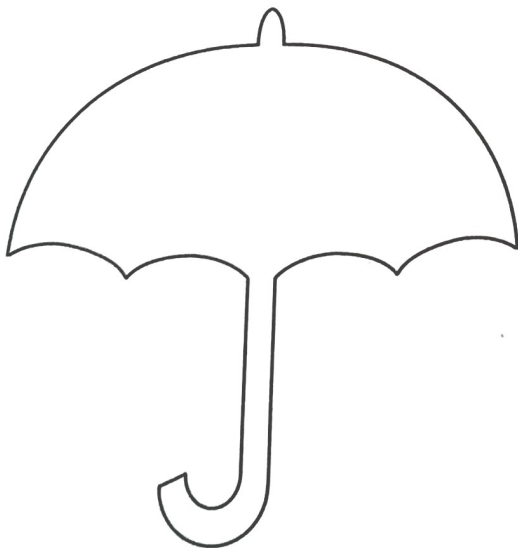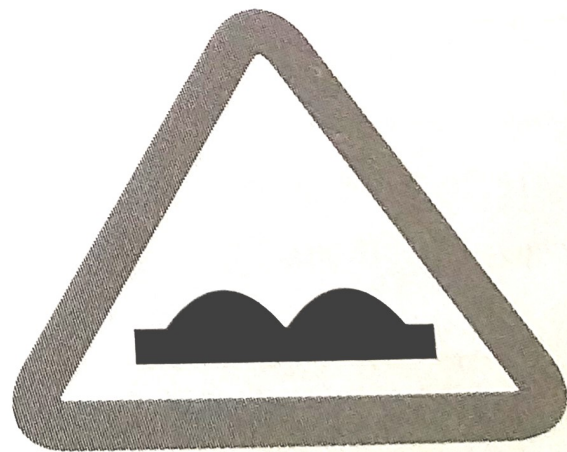**2** Which of these are symmetrical shapes?

a

b

c
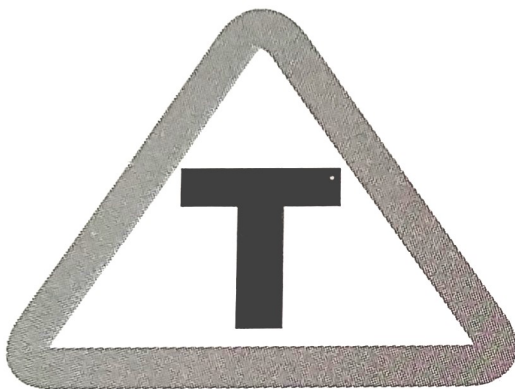
d
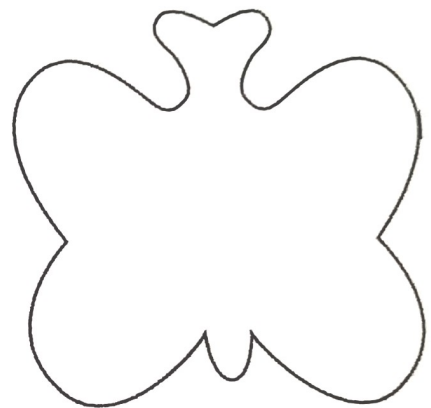
e

f

Shapes _____ a, c, d, f _____ are symmetrical.

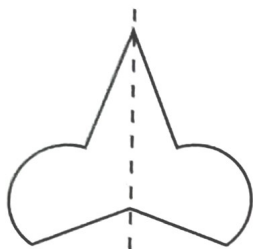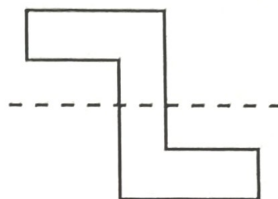**Identifying lines of symmetry**

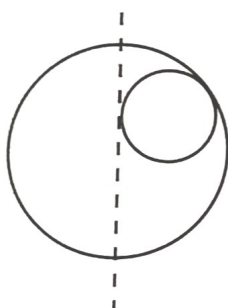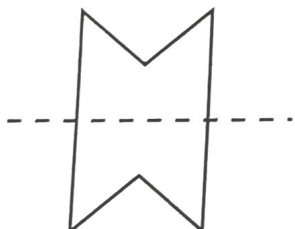1. Is the dotted line in each shape a line of symmetry? Write **Yes** or **No** in the spaces provided.
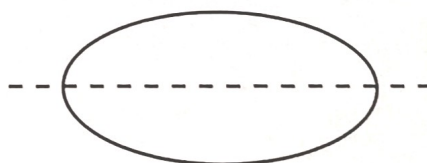
a

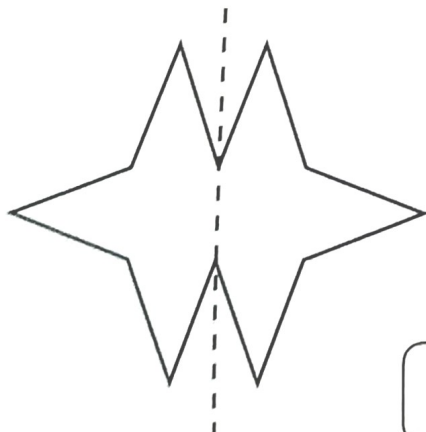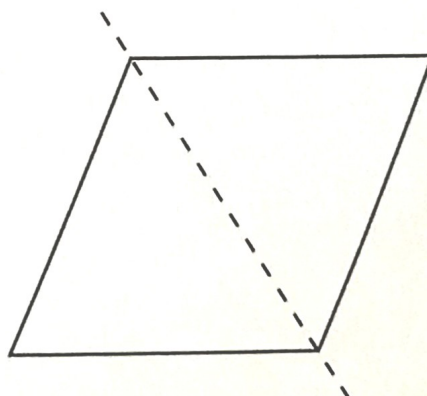Yes

b

No

c

No

d

No

e

Yes

f

Yes

g

Yes

h

Yes

2 Is the dotted line in each number a line of symmetry? Write **Yes** or **No** in the spaces provided.

| Yes | Yes | Yes | No |
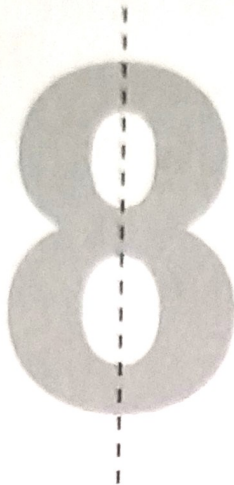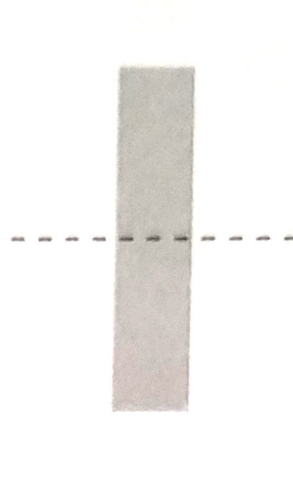
Making symmetrical shapes and patterns

1 Each shape is half of a symmetrical shape. Complete each symmetrical shape with the dotted line as a line of symmetry.

a

b

c

d
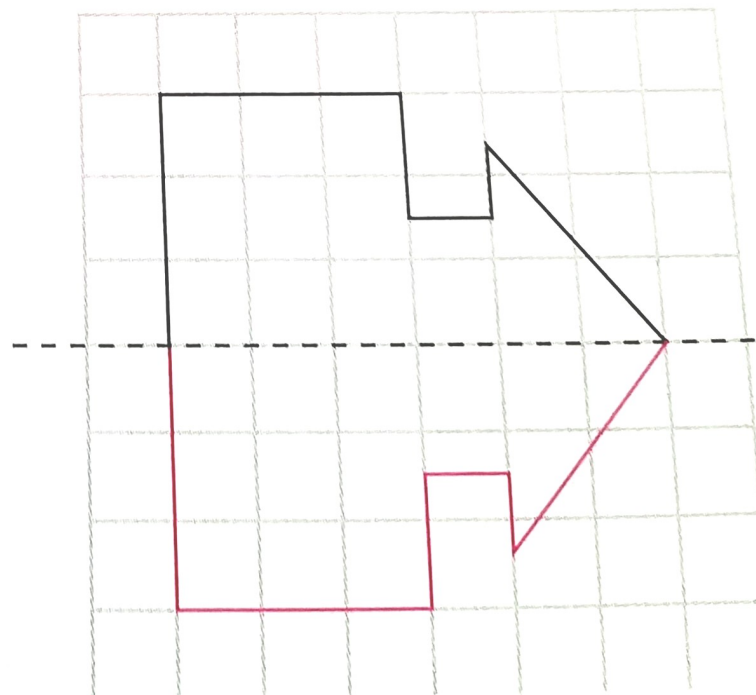
e
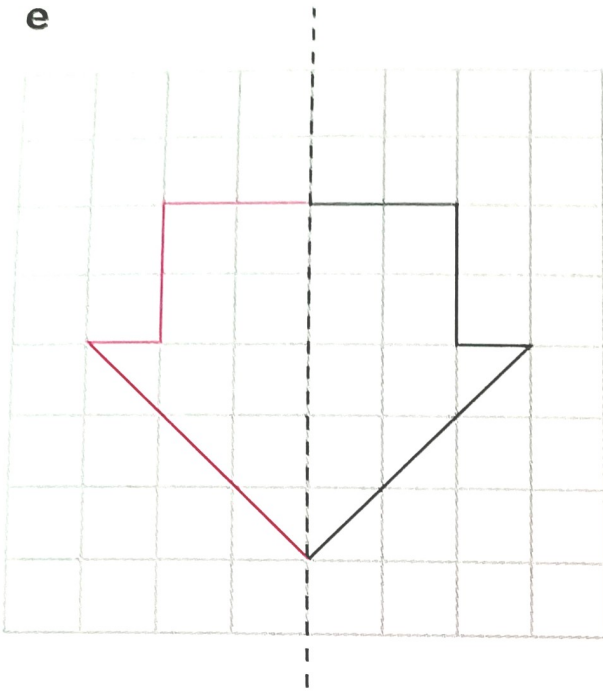
f

2 The dotted line on each pattern is a line of symmetry.
Colour the correct squares or half-squares to make each a symmetrical pattern.

a
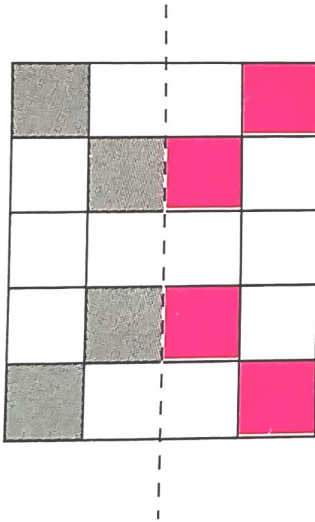
b
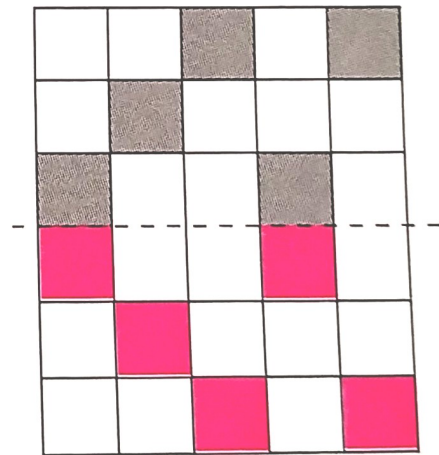
c
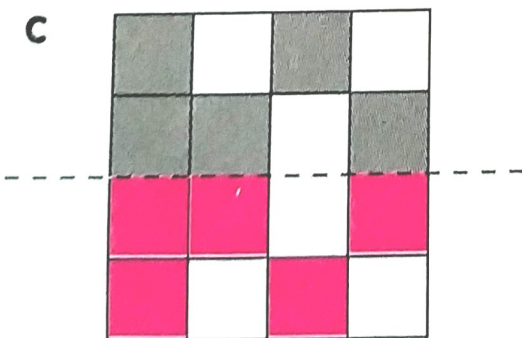
d
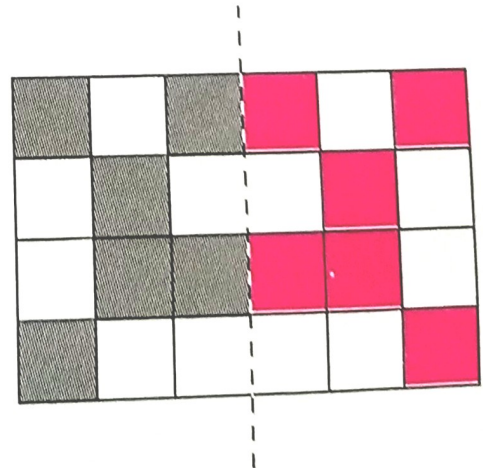
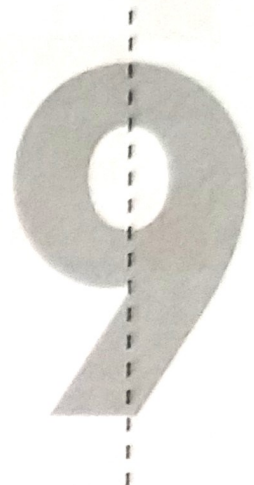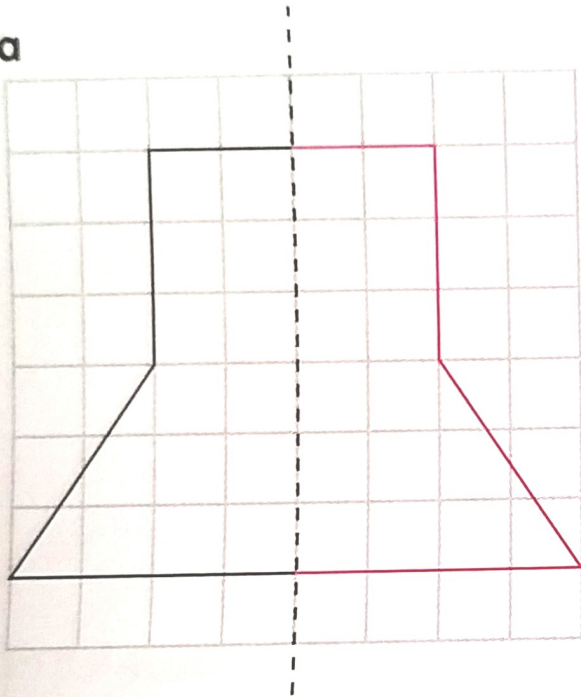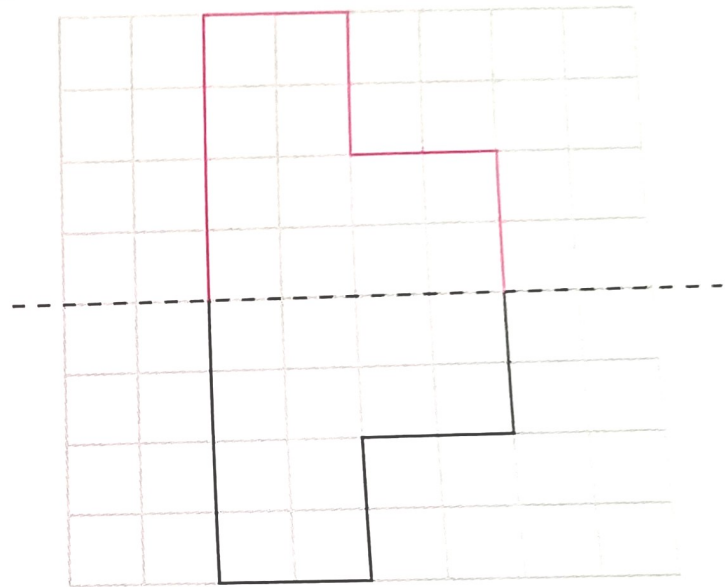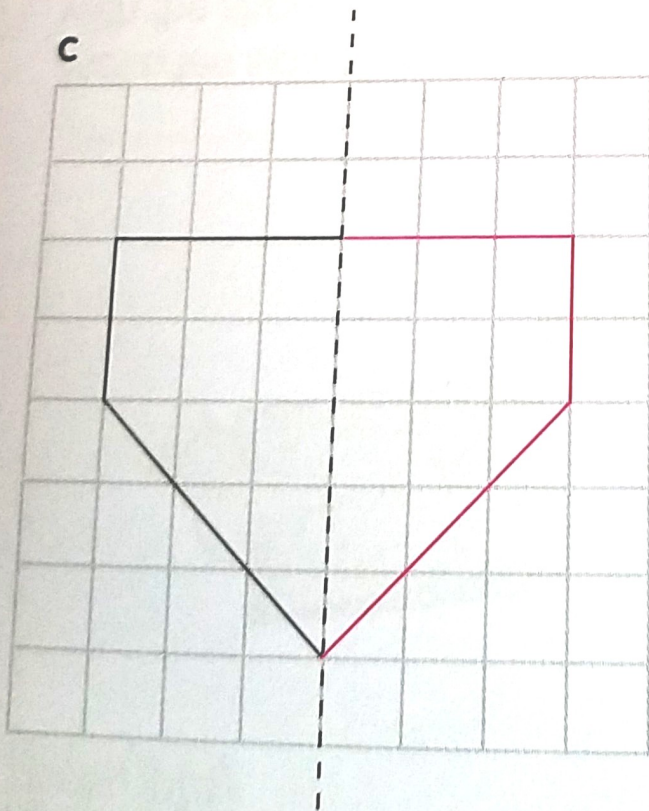**3** Make a symmetrical shape by folding a piece of paper in half and making a cut from one point on the fold line to another point on it.

Example
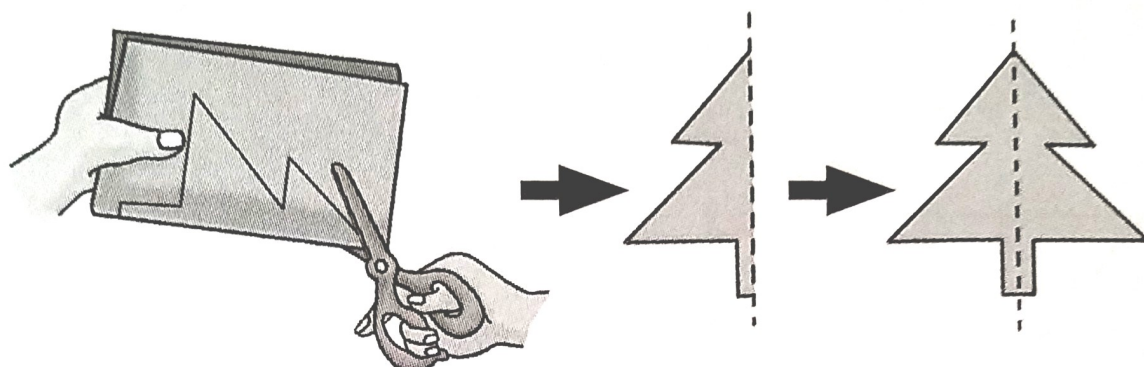
Make ten sets of your shape and create a design by making a pattern with the shapes. Draw or stick your pattern in the space below.

Answers vary

Maths Journal

1 Fill in the spaces using the words below.

equal	halves	divides	line

The dotted line is a line of symmetry of the shape because:

a it __divides__ the shape into two __equal__ parts.

b when the shape is folded along the __line__, the __halves__ fit exactly.

2

Explain why the dotted line is the line of symmetry for the shape.

a The line of symmetry divides the shape into two halves.

b When folded along the line of symmetry, the halves fit exactly.

Challenging Practice

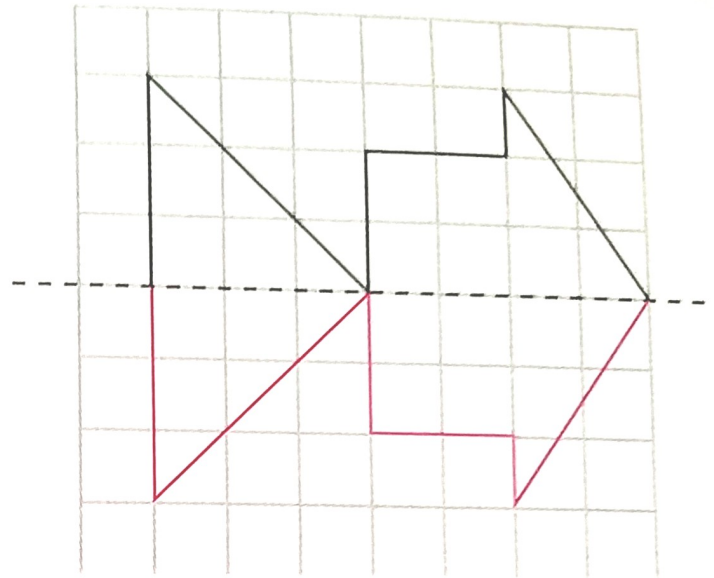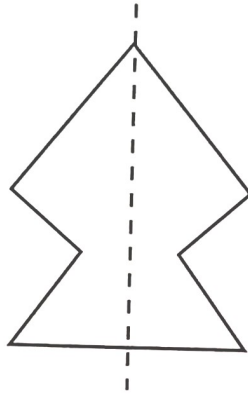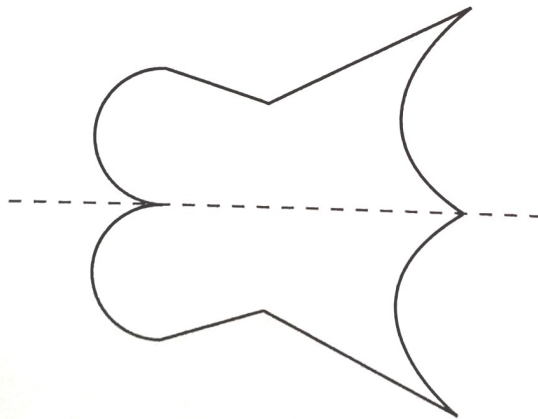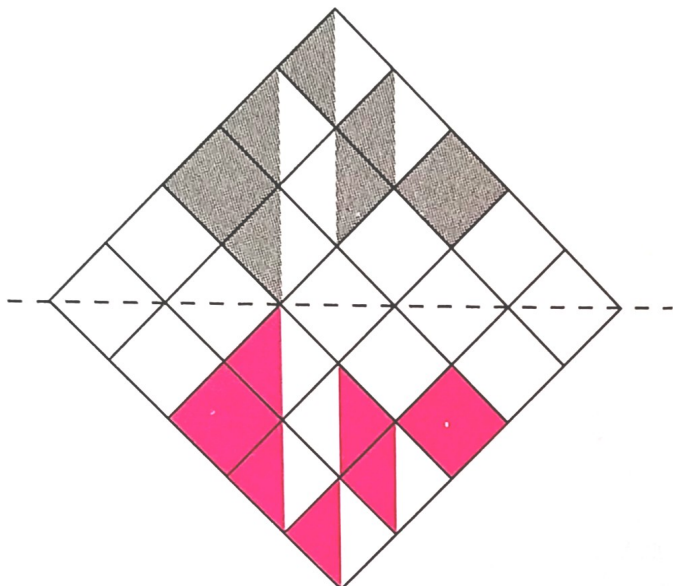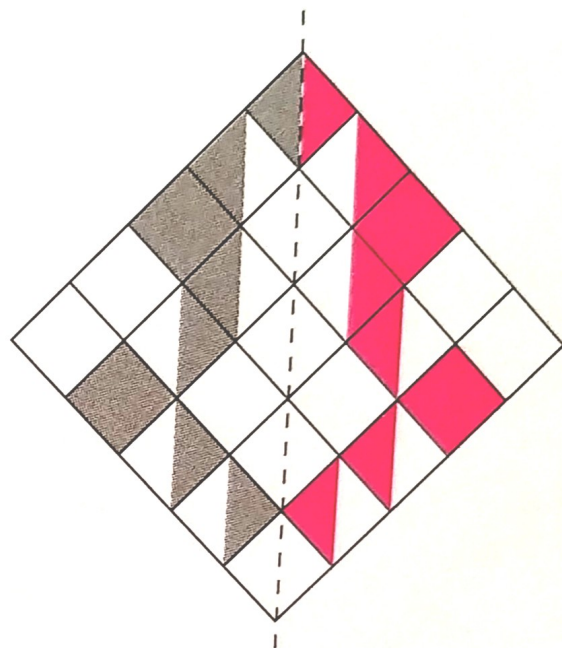**1** The dotted line is a line of symmetry.
Colour the correct squares or half-squares to make a symmetrical pattern.
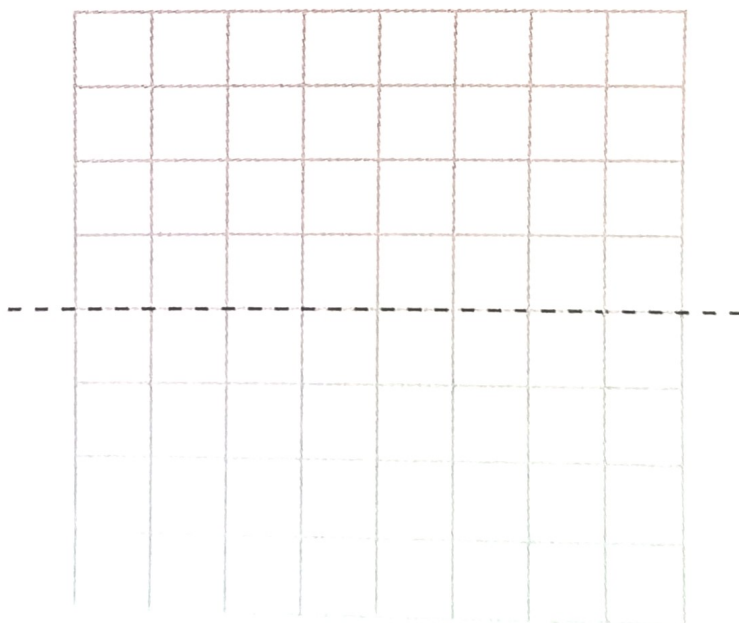
a

b

2 In the square grid below, design a symmetrical pattern with the dotted line as the line of symmetry. Answers vary
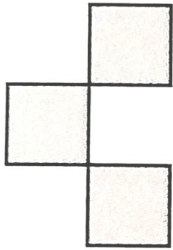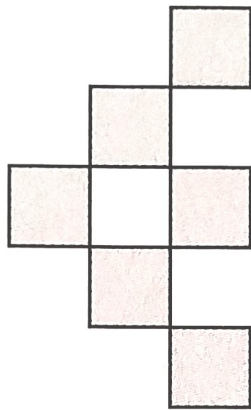
Problem Solving

1 Peter is making a pattern of symmetrical shapes.
He has made three of them.
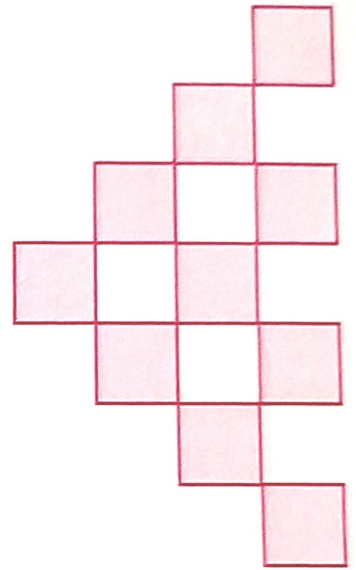Can you help him to make the 4th one?
Draw it in the space below.

| 1st | 2nd | 3rd | 4th |