## Symmetry

Please write clearly in block capitals

## Forename:

Surname:

## Materials

For this paper you must have:

- mathematical instruments

You can use a calculator.

## Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.


## Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.


## Advice

- In all calculations, show clearly how you work out your answer.

1(a) Draw all lines of symmetry on the rectangle below.


1(b) State the order of rotational symmetry of the shape below.


Answer

## Turn over for next question

2(a) Circle the shape with the most lines of symmetry.
[1 mark]


2(b) Draw a three sided polygon with rotational symmetry order 1.


## GCSE Maths Revision Cards

() All major GCSE maths topics covered
() Higher and foundation
() All exam boards - AQA, OCR, Edexcel, WJEC

3(a) How many lines of symmetry does an octagon have?

## Answer

$\qquad$
3(b) List the following rectangular flags in ascending order of lines of symmetry.


Antigua and Barbuda


Brazil


Georgia
Least $\qquad$ , $\qquad$ , $\qquad$ Most
3(c) State the order of rotational symmetry for the following shape.

Answer $\qquad$
Turn over for next question

4(a) How many lines of symmetry does a regular polygon with $n$ sides have?
Give your answer in terms of $n$.

## Answer

4(b) State the order of rotational symmetry of a square.

Answer

Draw the net of a die, such that the net, has order 2 rotational symmetry and 0 lines of reflectional symmetry.


## Turn over for next question

5(a) Name the type of triangle that can have one line of reflective symmetry.

Answer $\qquad$

5(b) The descriptions of 4 shapes are shown below.
Match each of the following descriptions to the correct shape it's describing.


Turn over for next question


