Introduction

Which of the following shapes have more than one line of symmetry?

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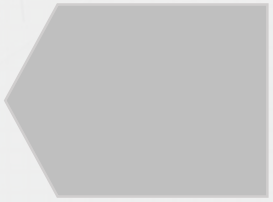
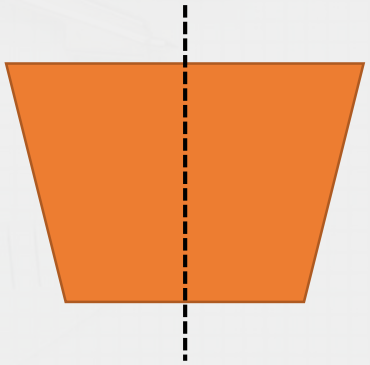


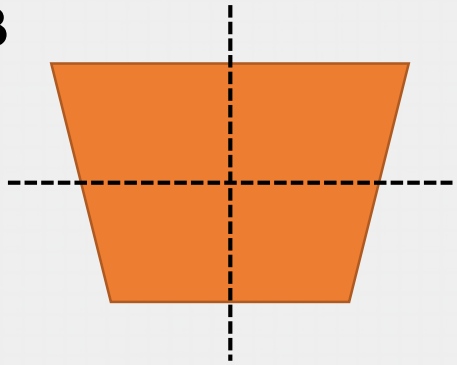
Varied Fluency 1

Which shape has the correct lines of symmetry marked?

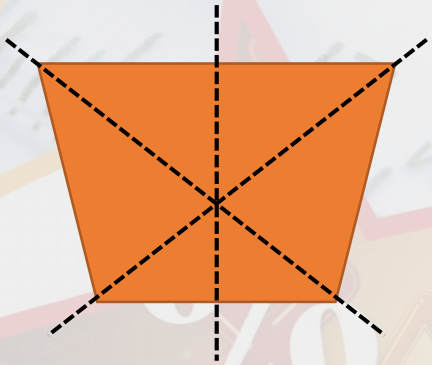
A



B



C



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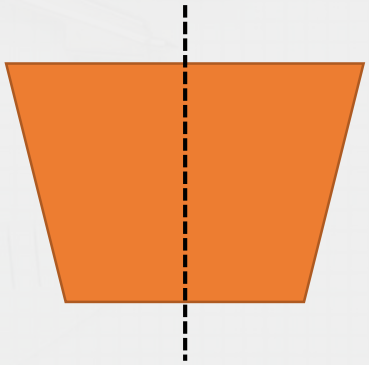
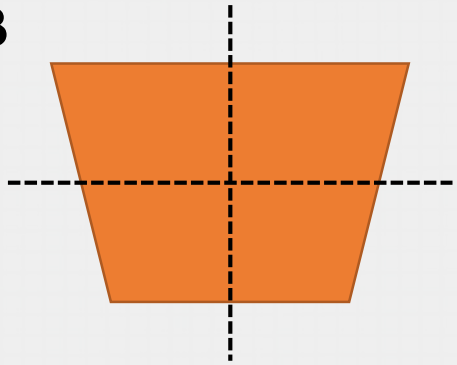
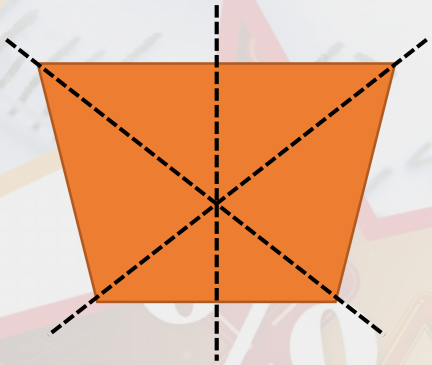


B



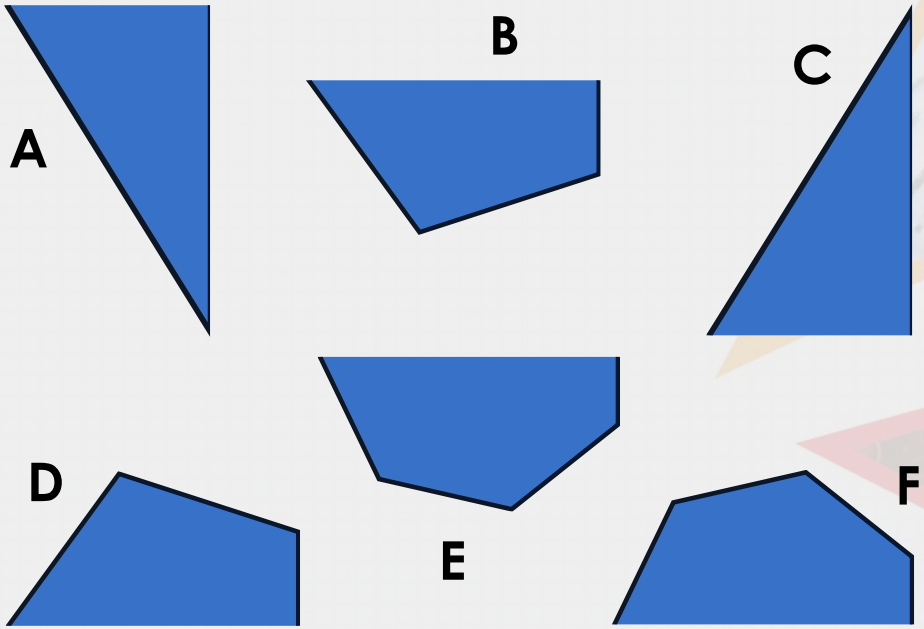
C



Shape A

Varied Fluency 2

Match the halves which go together to make symmetrical shapes.



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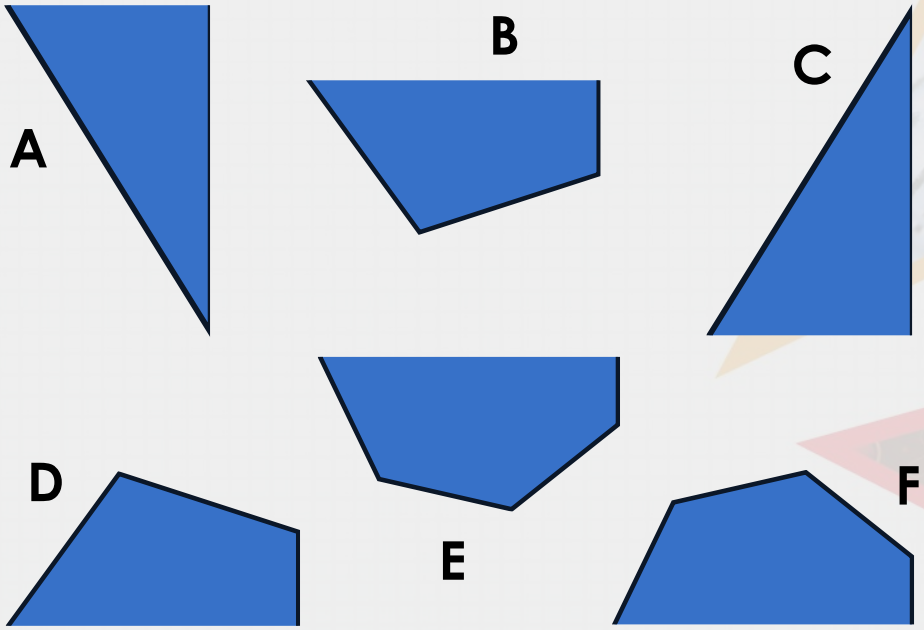
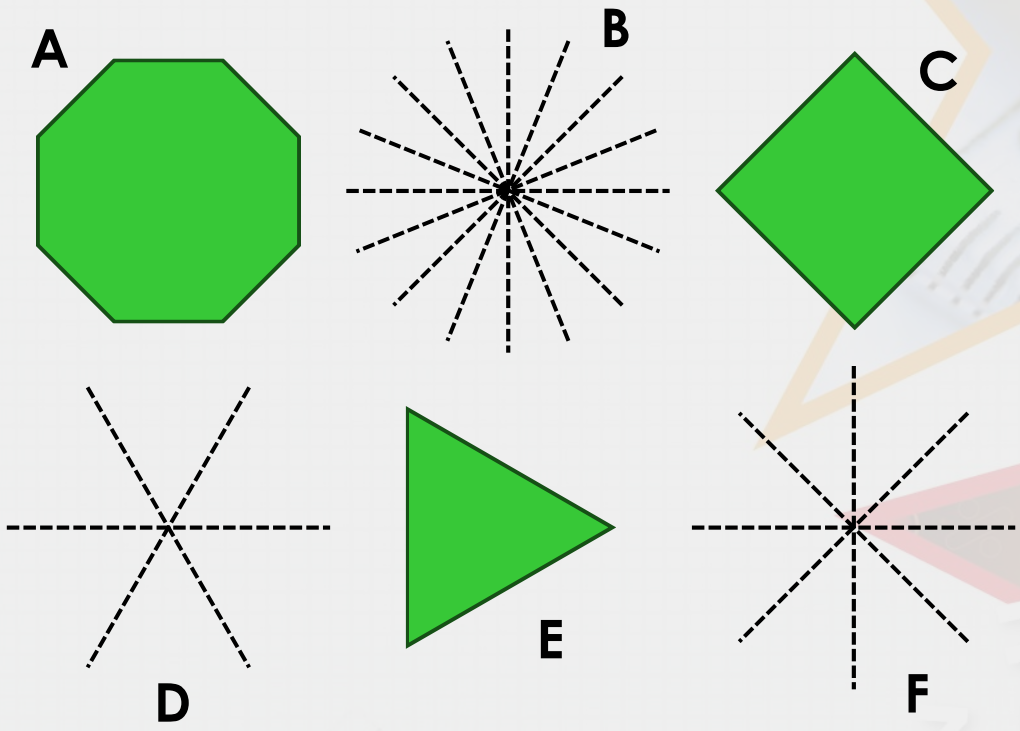


A and C; B and D; E and F

Varied Fluency 3

Pair the lines of symmetry with the shapes they match.



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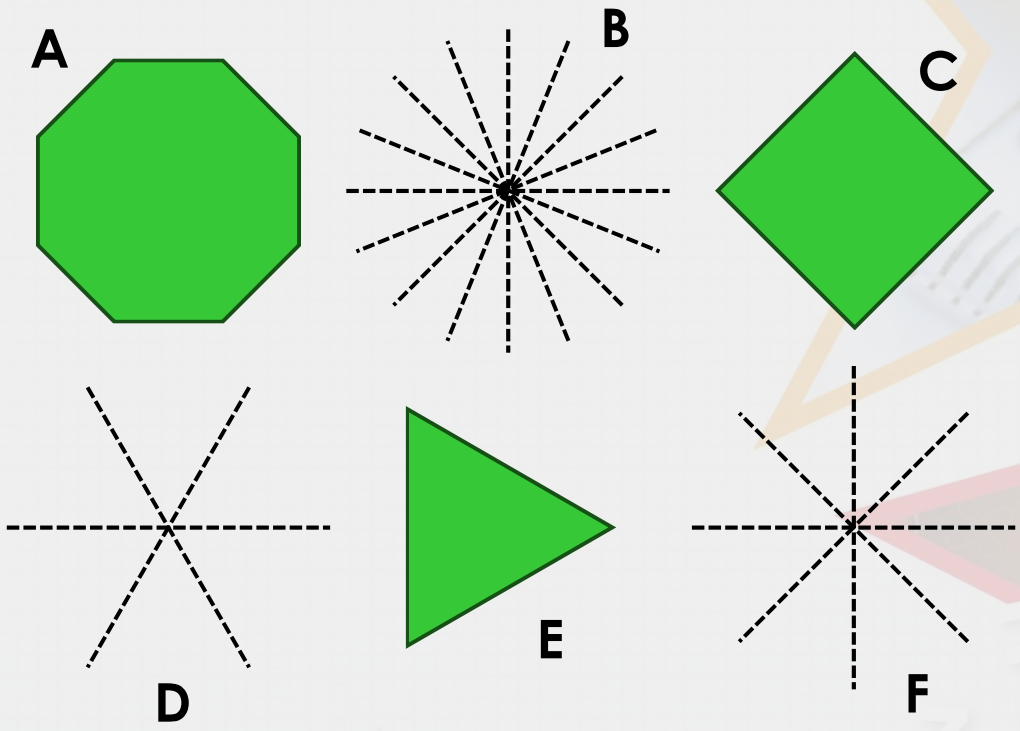
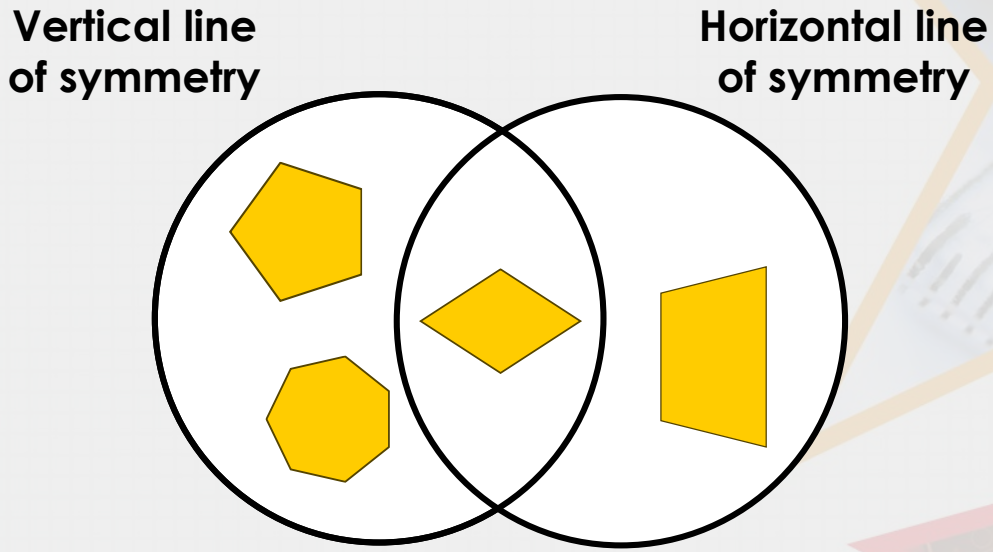


A and B; C and F; D and E

Reasoning 1

Eustace has filled in this Venn diagram with shapes.



Find and explain his mistake.

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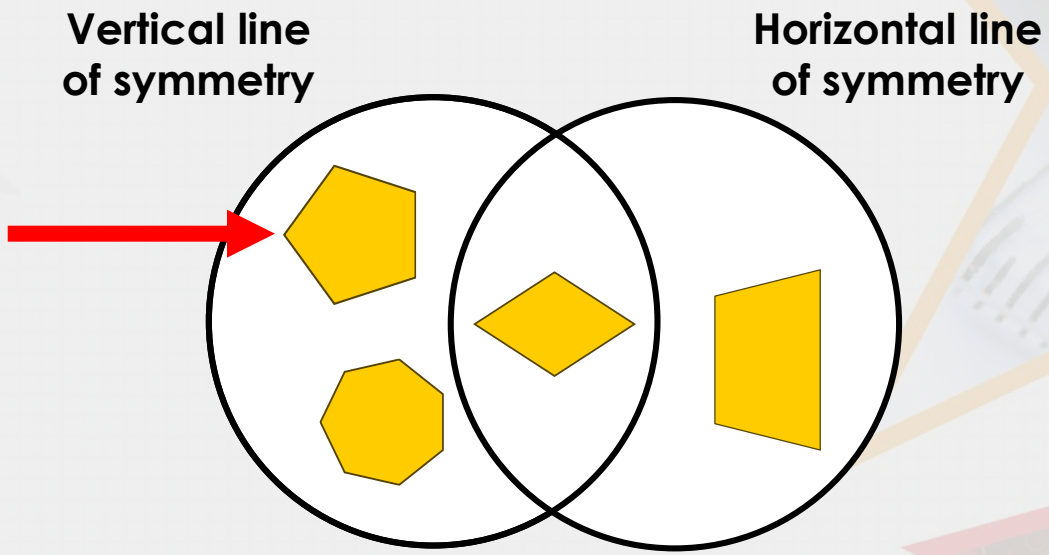
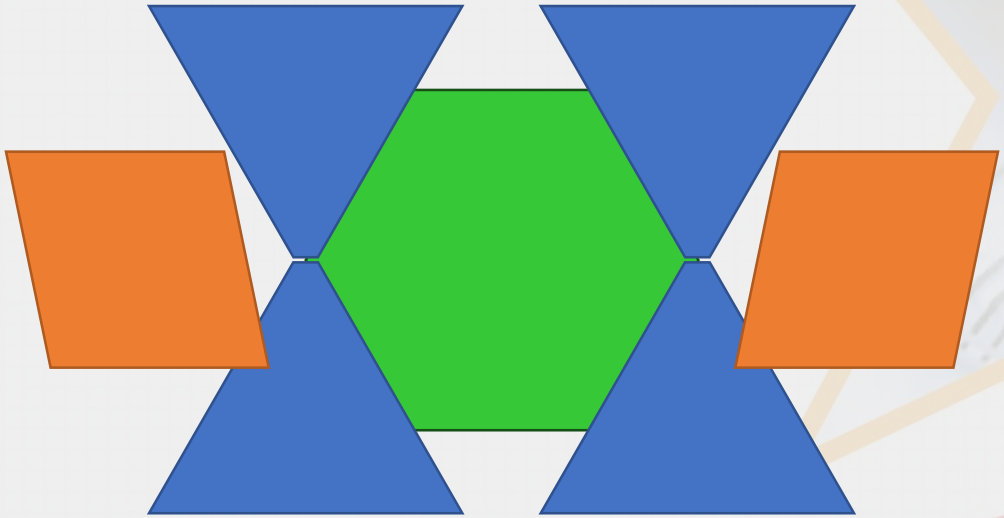


Find and explain his mistake.

Eustace has put the pentagon in the 'Vertical line of symmetry' section when in that orientation. It should be in the 'Horizontal line of symmetry' section instead.

Problem Solving 1

Here is an image made up of several shapes.



How many lines of symmetry does the image (not the individual shapes) have?

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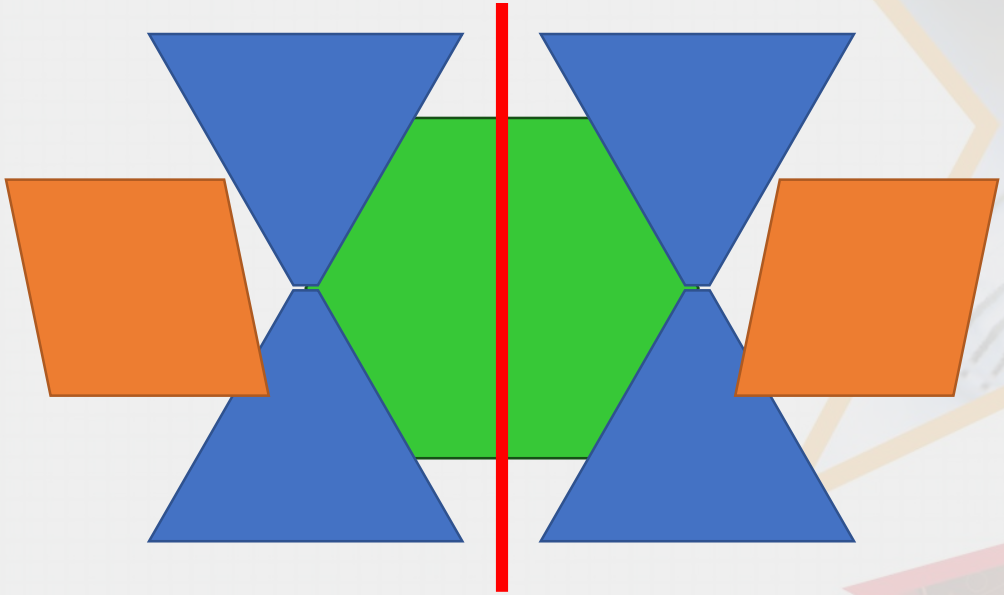
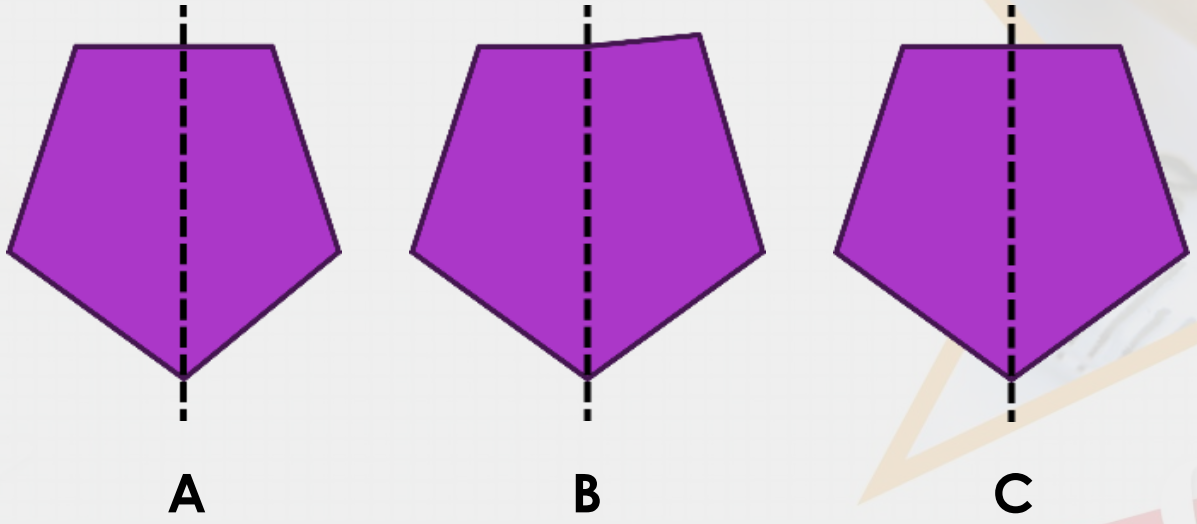


How many lines of symmetry does the image (not the individual shapes) have?

The image has 1 line of symmetry.

Reasoning 2

Here are 3 attempts at drawing reflections.



A B C

Find the reflections that are not symmetrical. Explain why.

Reasoning 2

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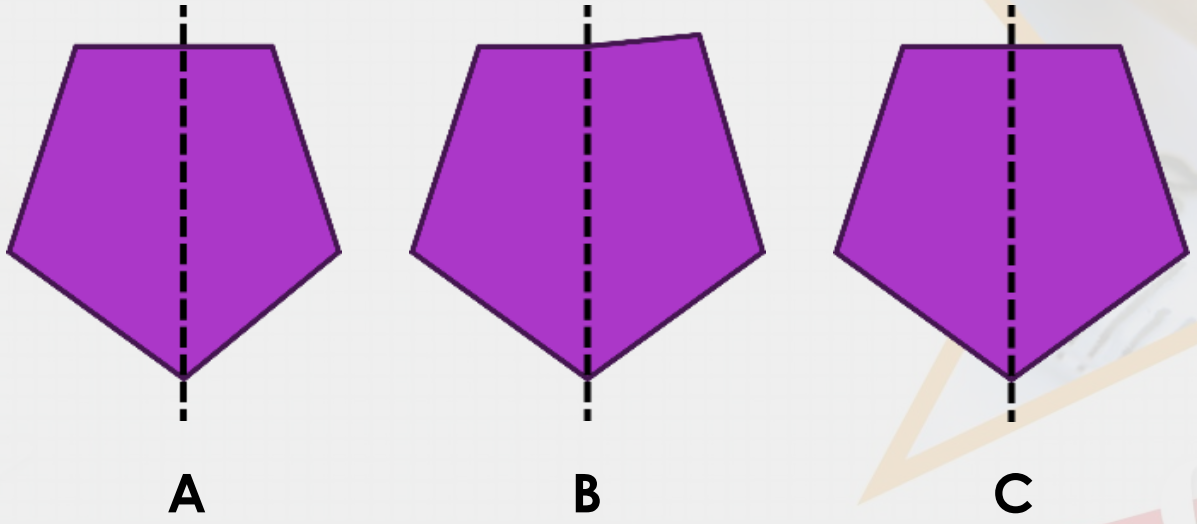

A B C

Find the reflections that are not symmetrical. Explain why.

Shapes A and B are not symmetrical. The right-hand part of shape A is narrower than the left-hand side. The top-right-hand corner of reflection B is higher and further out than the top-left-hand corner.