

LIFE/work balance

CLASSROOM *Secrets*

#LIFEworkbalance

We have started a #LIFEworkbalance campaign and we need your help to complete our LIFE/work balance survey.

We hope to publish the results soon, so please give 15 minutes of your time to help us get a true picture of school life.

Want to be a part of this campaign? Take the [survey](#) on our website and share it with your colleagues!

Year 4 – Summer Block 5 – Properties of Shape – Lines of Symmetry

About This Resource:

This PowerPoint has been designed to support your teaching of this small step. It includes a starter activity and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack. You can choose to work through all examples provided or a selection of them depending on the needs of your class.

National Curriculum Objectives:

Mathematics Year 4: (4G2b) [Identify lines of symmetry in 2-D shapes presented in different orientations](#)

More [Year 4 Properties of Shape](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Step 5: Lines of Symmetry

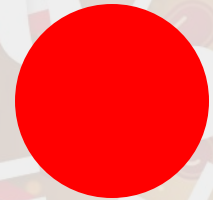
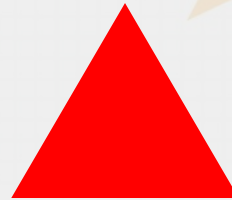
Introduction

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



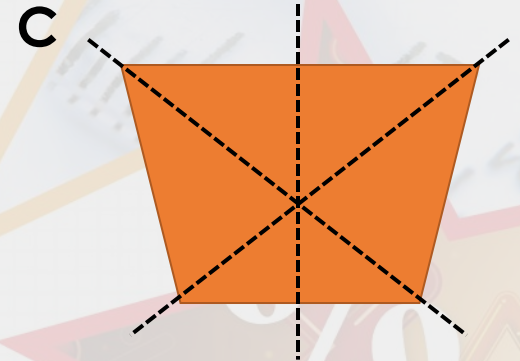
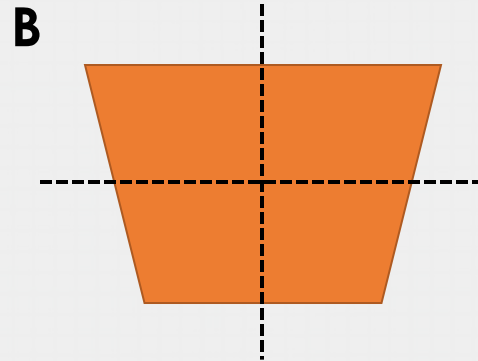
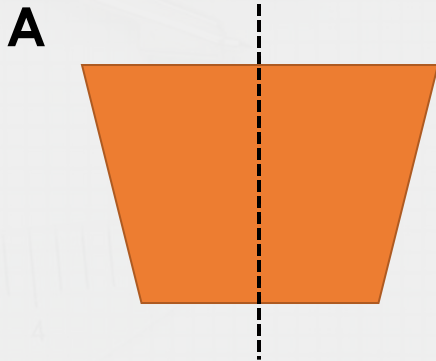
Introduction

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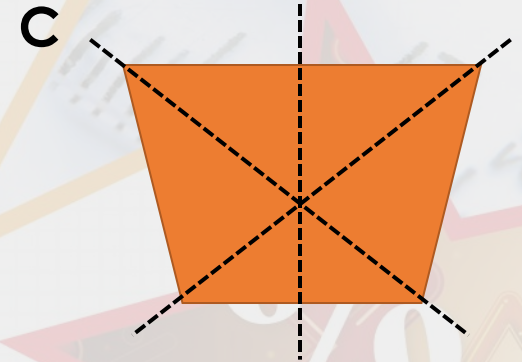
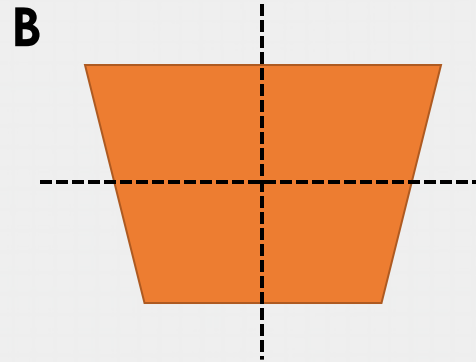
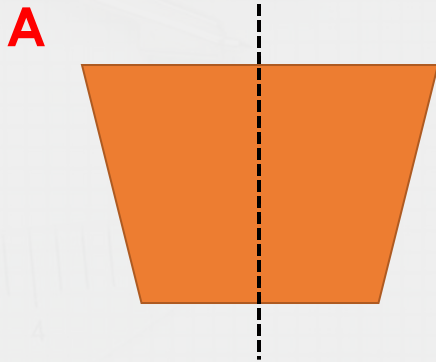
Varied Fluency 1

Which shape has the correct lines of symmetry marked?



Varied Fluency 1

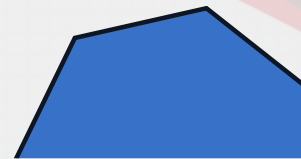
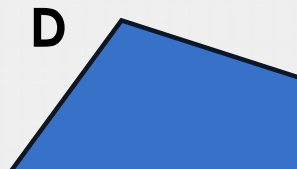
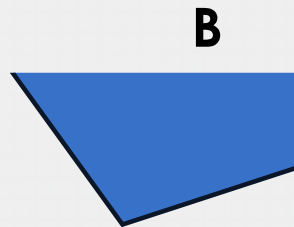
Which shape has the correct lines of symmetry marked?



Shape A

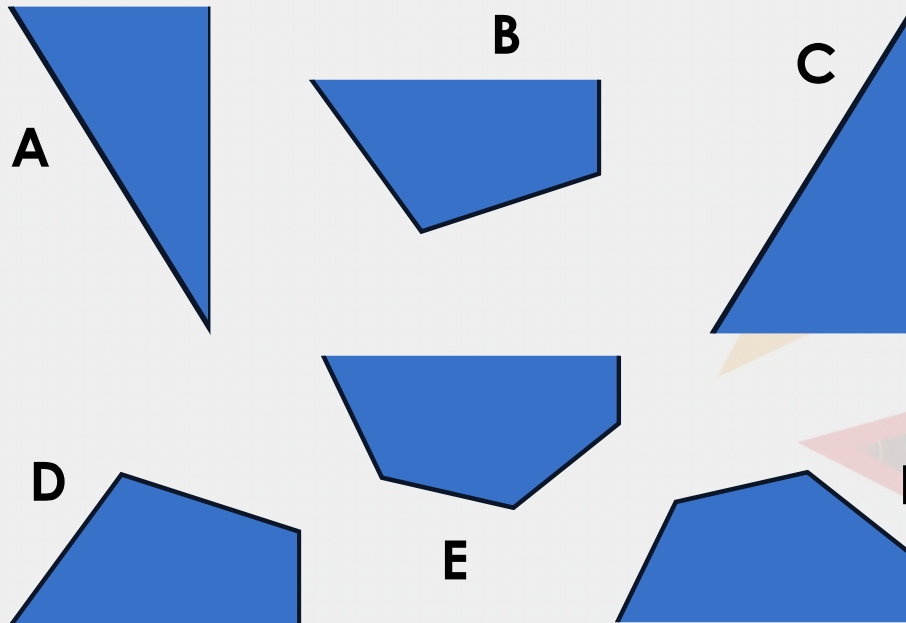
Varied Fluency 2

Match the halves which go together to make symmetrical shapes.



Varied Fluency 2

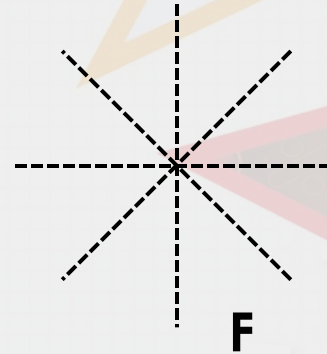
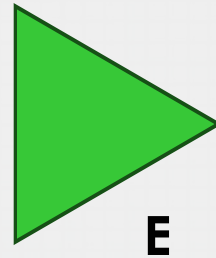
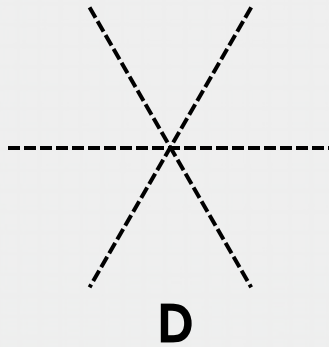
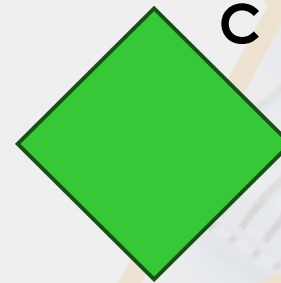
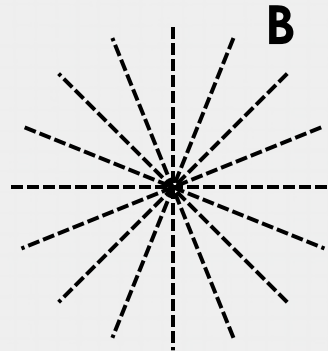
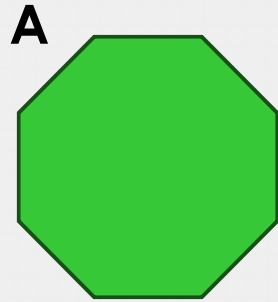
Match the halves which go together to make symmetrical shapes.



A and C; B and D; E and F

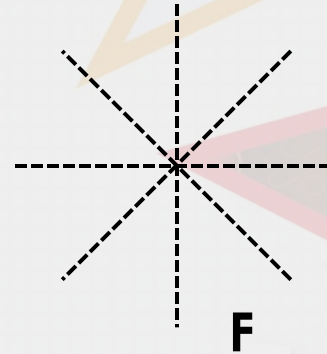
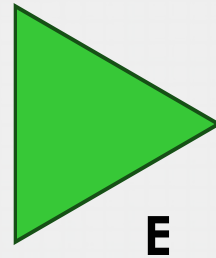
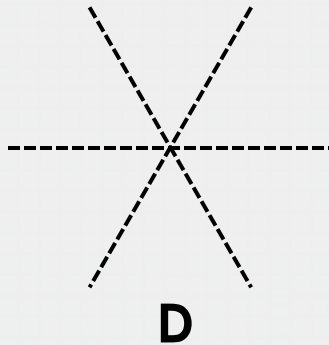
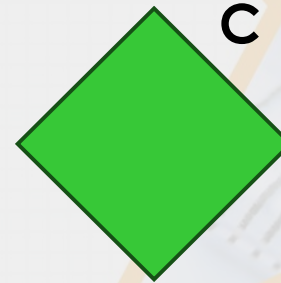
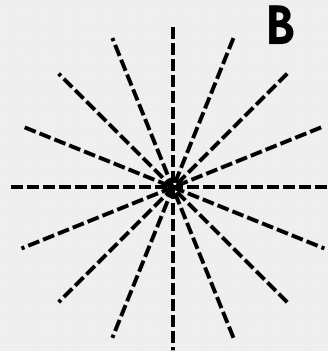
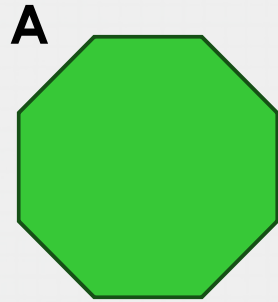
Varied Fluency 3

Pair the lines of symmetry with the shapes they match.



Varied Fluency 3

Pair the lines of symmetry with the shapes they match.



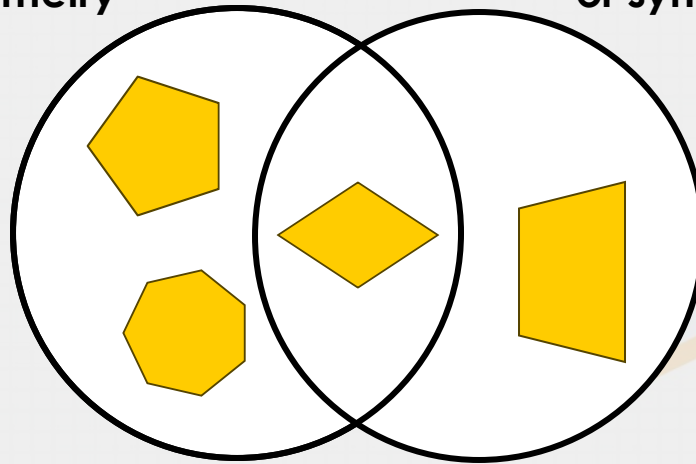
A and B; C and F; D and E

Reasoning 1

Eustace has filled in this Venn diagram with shapes.

Vertical line
of symmetry

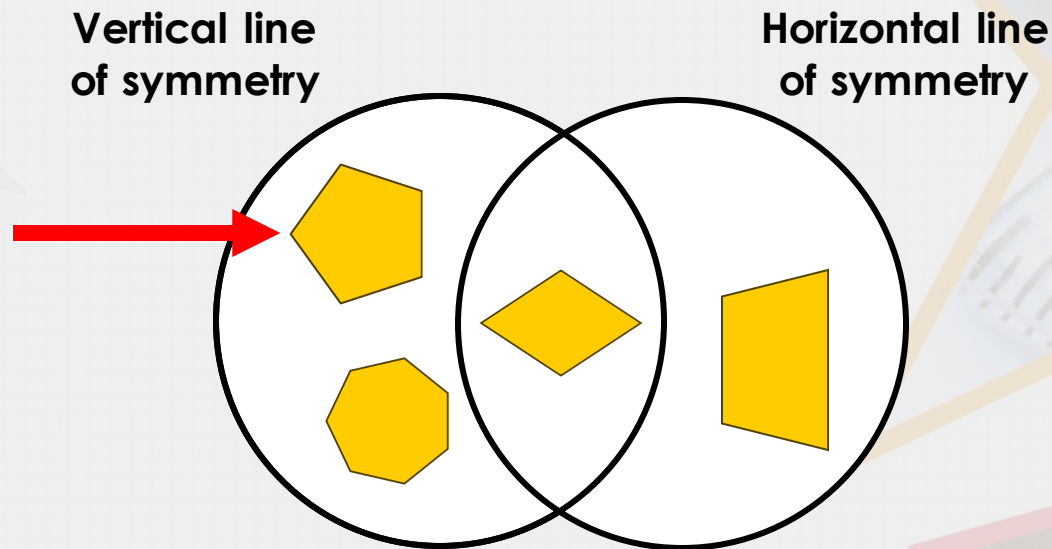
Horizontal line
of symmetry



Find and explain his mistake.

Reasoning 1

Eustace has filled in this Venn diagram with shapes.

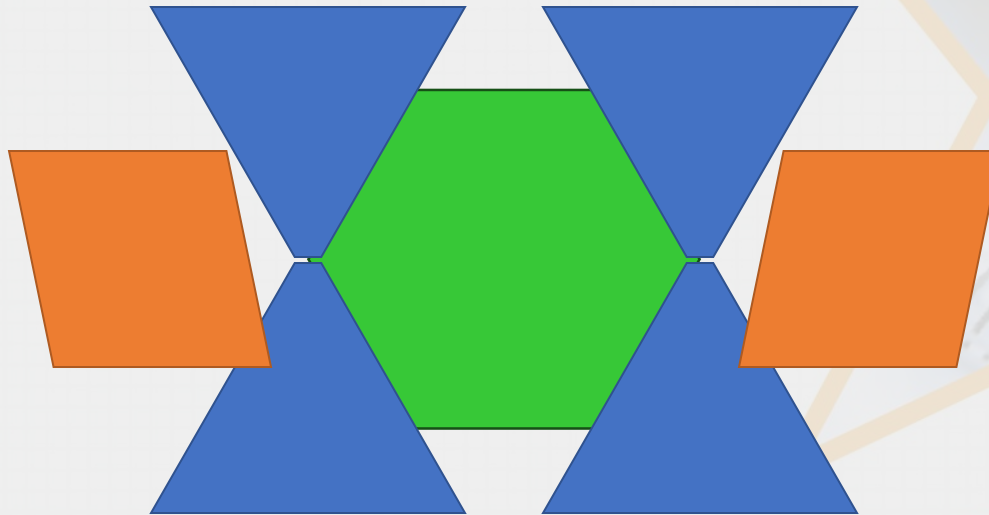


Find and explain his mistake.

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

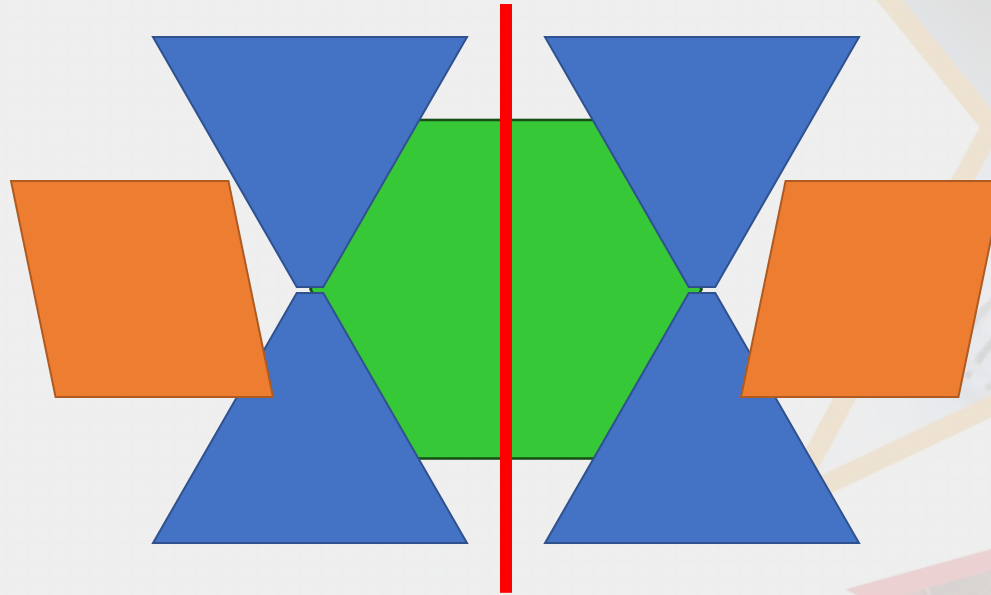
Here is an image made up of several shapes.



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

Problem Solving 1

Here is an image made up of several shapes.

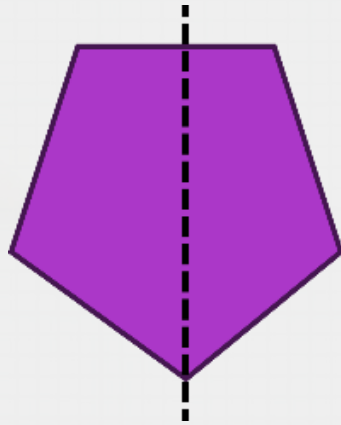


How many lines of symmetry does the image (not the individual shapes) have?

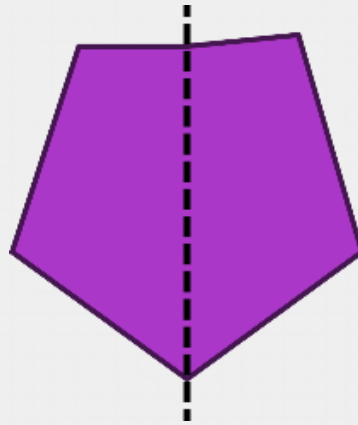
The image has 1 line of symmetry.

Reasoning 2

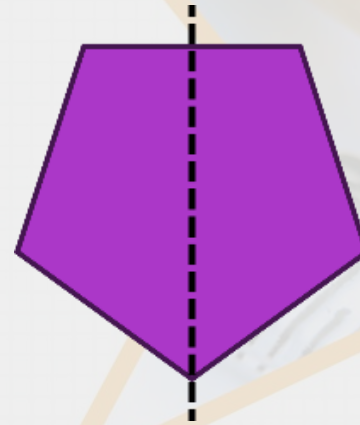
Here are 3 attempts at drawing reflections.



A



B

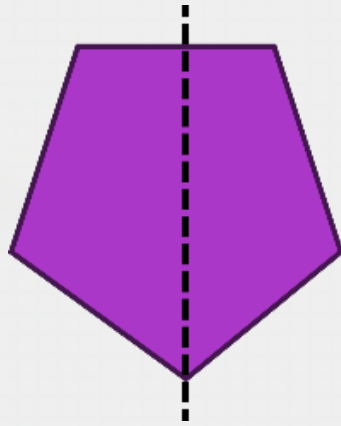


C

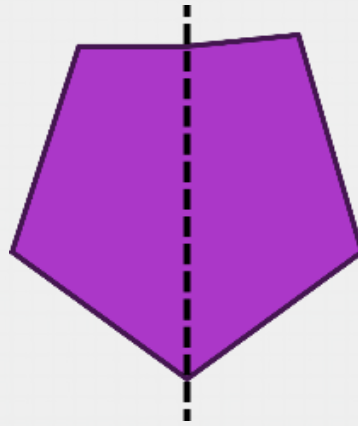
Find the reflections that are not symmetrical. Explain why.

Reasoning 2

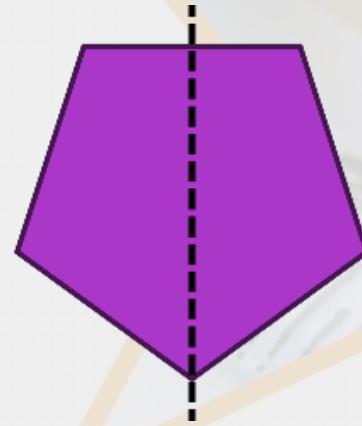
Here are 3 attempts at drawing reflections.



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.