

Ready-to-go Lesson Slides Year 2

Please note: Paper shapes for folding may be useful for this lesson.

Geometry: Properties of Shapes Lesson 5



07/06/2020

At Third Space Learning we provide personalised online lessons from specialist maths tutors to support the target groups in your school.

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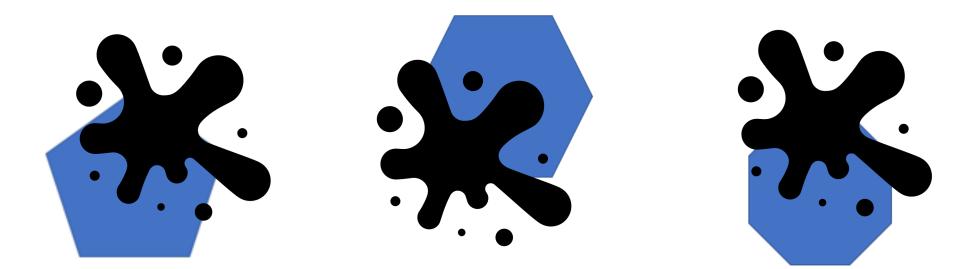
To fold and draw vertical lines of symmetry

Success Criteria:

- □ I know what symmetry is
- □ I know what vertical means
- □ I can check if a shape has a vertical line of symmetry by using mirrors or folding paper

Starter:

Here are some regular 2-D shapes that have been 'splatted'. Can you work out which shapes they are and why?





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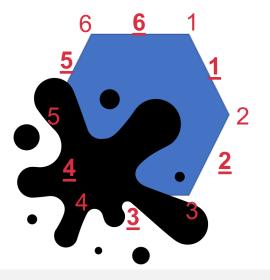
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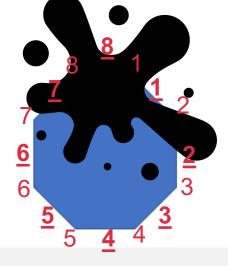
Starter:

Here are some regular 2-D shapes that have been 'splatted'. Can you work out which shapes they are and why?

This is a pentagon. It has <u>**5 sides**</u> and 5 vertices.

4 3 3 THIRD SPACE LEARNING This is a hexagon. It has <u>6 sides</u> and 6 vertices. This is an octagon. It has <u>8 sides</u> and 8 vertices.



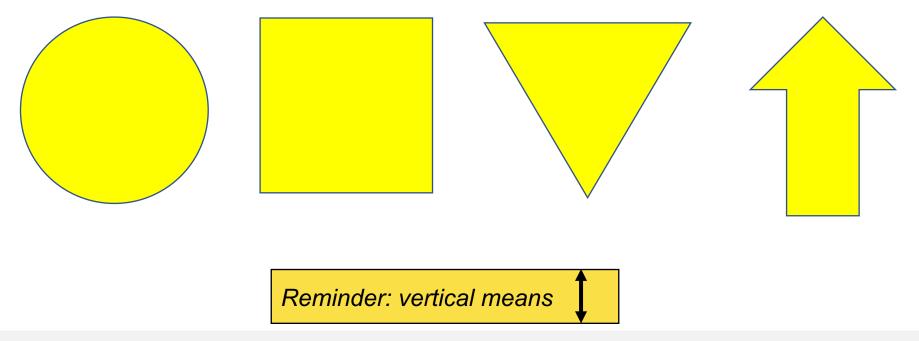


Here are four shapes.

You will need to have copies of these on paper so that

you can fold them.

Can you fold the shapes to find their vertical line of symmetry?

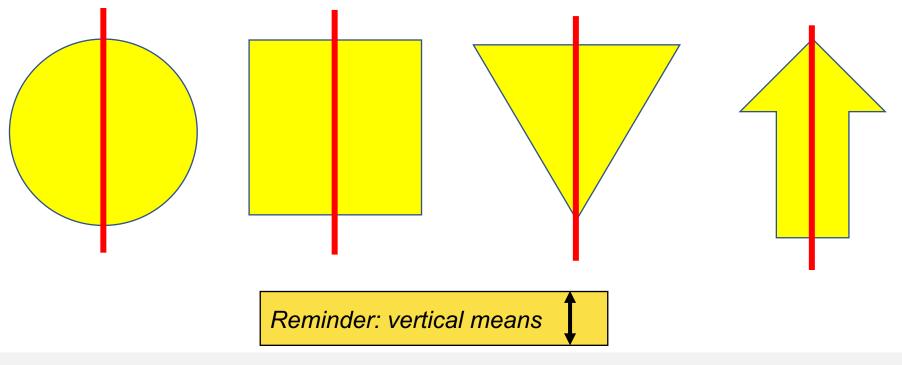




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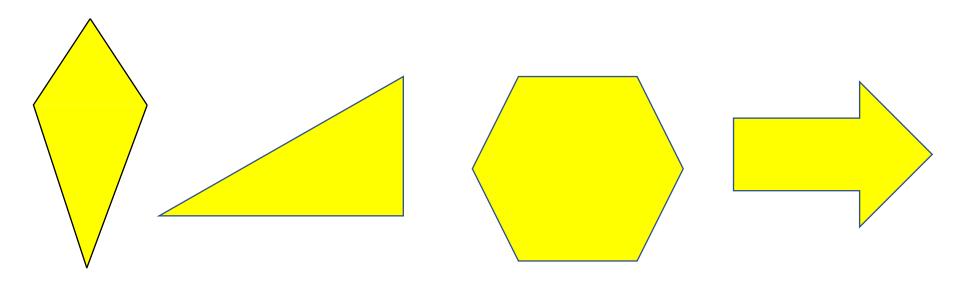
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Which ones do not?





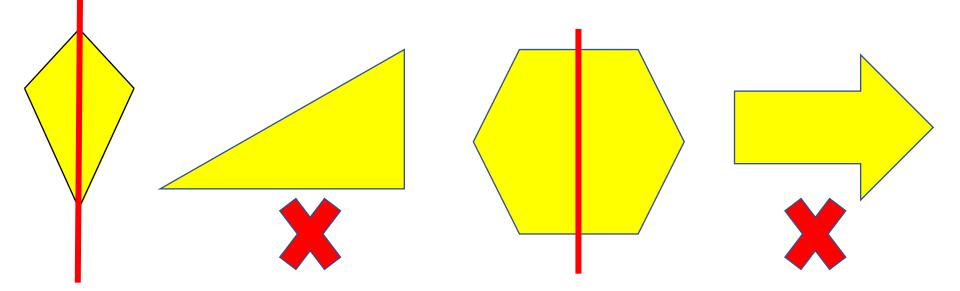
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To fold and draw vertical lines of symmetry Activity 1:

Evie has placed a mirror on this shape's vertical line of symmetry.

This is what Evie can see.

Can you draw the other half of the shape? What is the name of the shape that you have drawn?







To fold and draw vertical lines of symmetry Activity 1:

Evie has placed a mirror on this shape's vertical line of symmetry.

This is what Evie can see.

Can you draw the other half of the shape? What is the name of the shape that you have drawn?

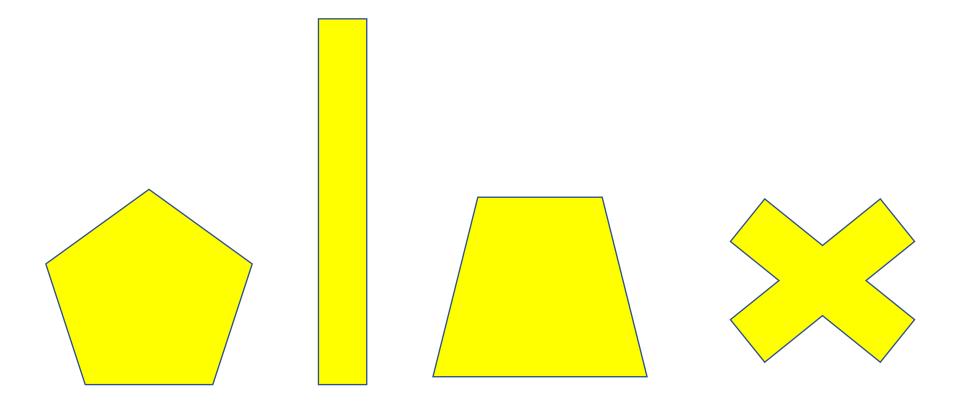


You will have drawn an octagon.

You could check your answer by folding an octagon along its vertical line of symmetry.

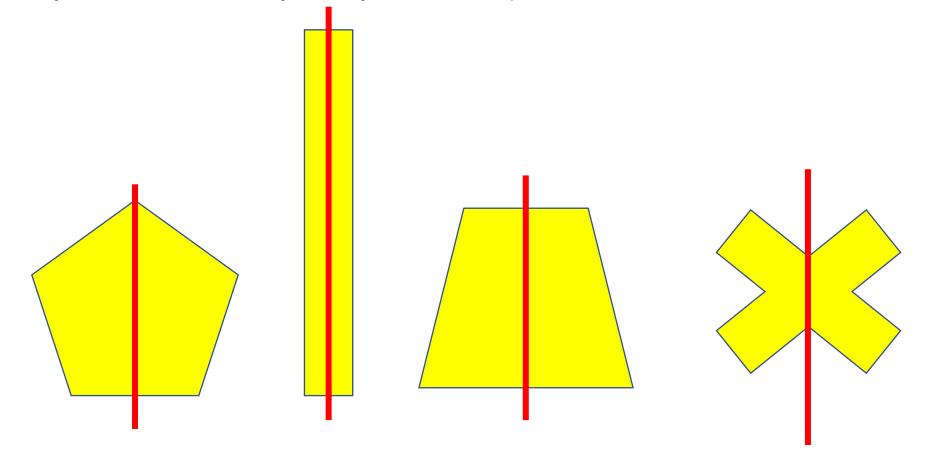


All of these shapes have a vertical line of symmetry. Can you draw the line of symmetry on each shape?



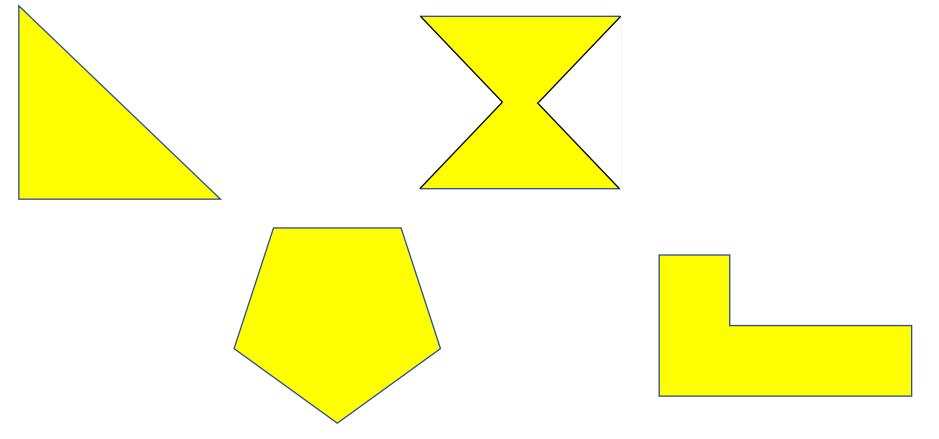


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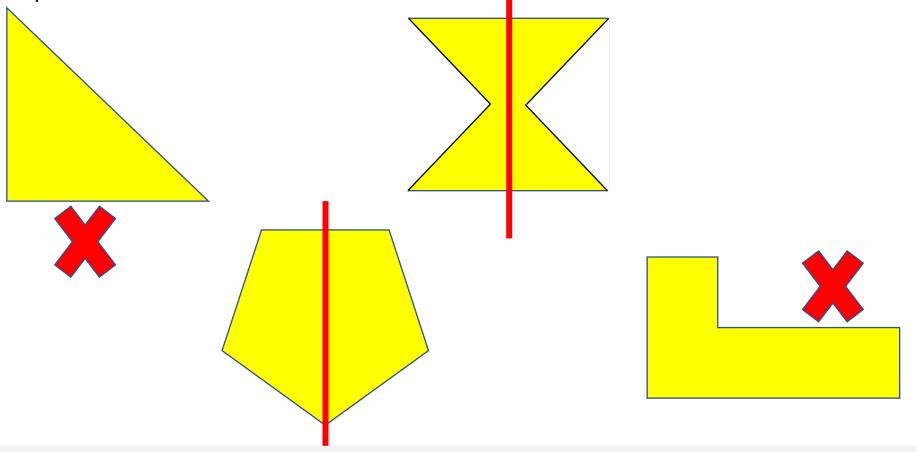


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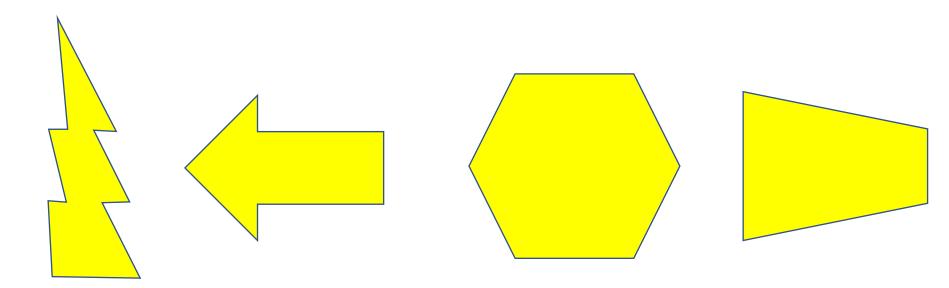
To fold and draw vertical lines of symmetry

Talking Time:

Only one of these shapes has a vertical line of symmetry.

Can you work out which one it is?

Can you draw in the line of symmetry to prove that you are right?





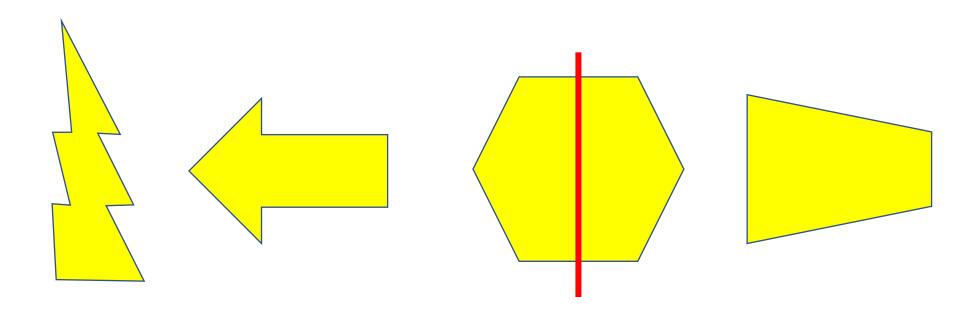
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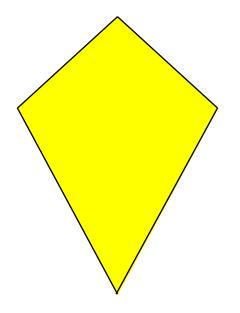




To fold and draw vertical lines of symmetry Activity 2:



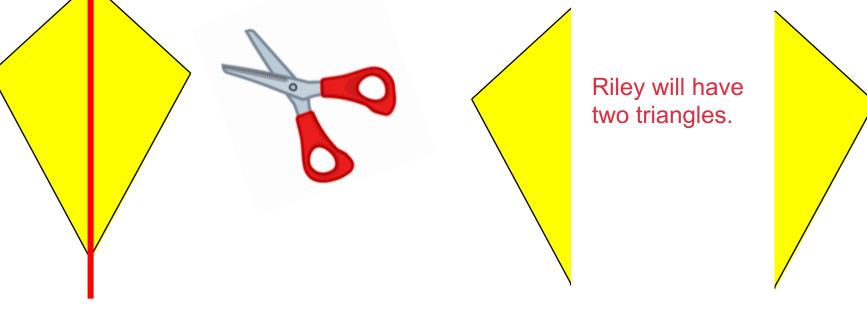
Riley draws a vertical line of symmetry on this shape. He then cuts along the line with scissors. Which shapes will Riley have when he has cut along the vertical line of symmetry?





To fold and draw vertical lines of symmetry Activity 2:

Riley draws a vertical line of symmetry on this shape. He then cuts along the line with scissors. Which shapes will Riley have when he has cut along the vertical line of symmetry?



This shape has a vertical line of symmetry, but the line is in the wrong place.

Can you change the position of the vertical line of

symmetry so that it is in the right place?

You could prove your answer by folding.



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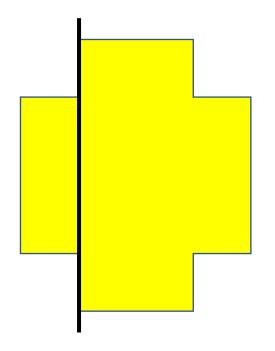


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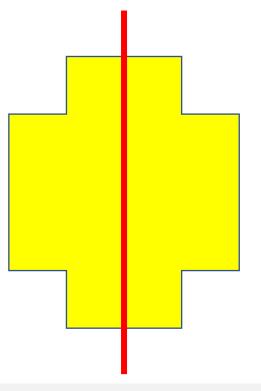


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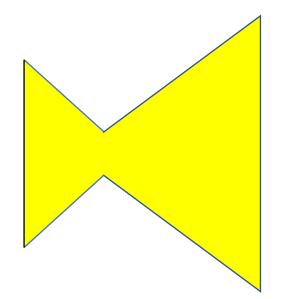
symmetry so that it is in the right place?





Does this shape have a vertical line of symmetry? Why? Why not?

Can you explain your thinking?





Does this shape have a vertical line of symmetry? No.

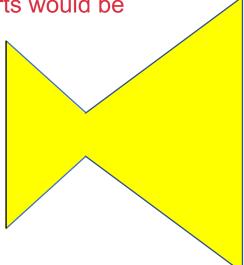
Why? Why not?

Can you explain your thinking?

This irregular hexagon does not have a vertical line of

symmetry. The two parts would be

different sizes. It DOES have a horizontal line of symmetry.

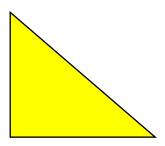




To fold and draw vertical lines of symmetry Activity 3:

Can you draw **three** different triangles that have a vertical line of symmetry?

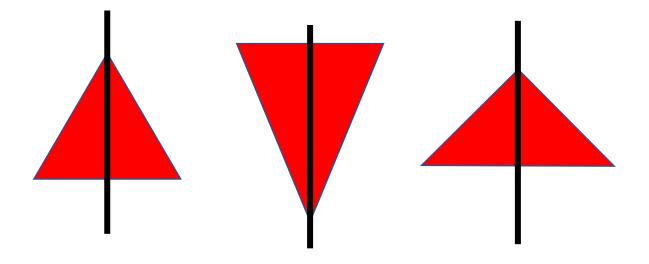
Does this triangle have a vertical line of symmetry? Why? Why not?



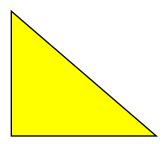


To fold and draw vertical lines of symmetry Activity 3:

Can you draw **three** different triangles that have a vertical line of symmetry?



Does this triangle have a vertical line of symmetry? No. Why? Why not? This triangle does not have a vertical line of symmetry. The two parts would be different sizes.

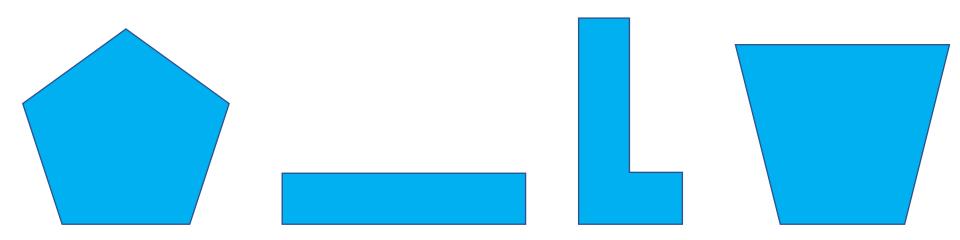




To fold and draw vertical lines of symmetry Evaluation:

Thinking about symmetry, which of these shapes is the odd one out? Why?

Can you explain your thinking?





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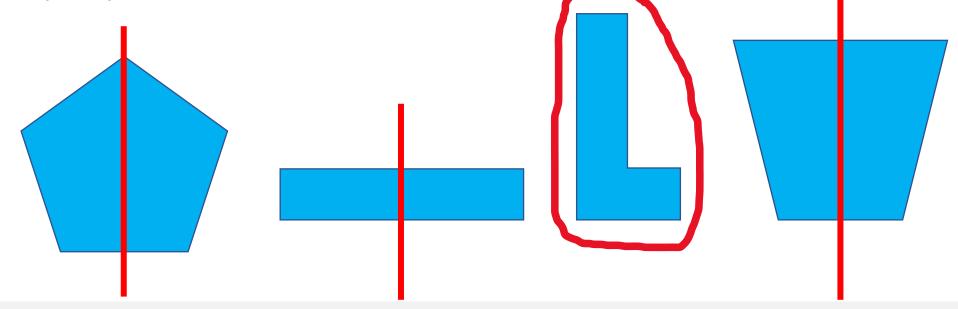
Evaluation:

Thinking about symmetry, which of these shapes is the odd one out?

The irregular hexagon is the odd one out.

Why?

Can you explain your thinking? The irregular hexagon is the only one without a vertical line of symmetry.



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