

Ready-to-go Lesson Slides Year 2

Please note:

2-D shapes and sorting hoops or similar would be needed for this lesson.

Geometry: Properties of Shapes Lesson 6 At Third Space Learning we provide personalised online lessons from specialist maths tutors to support the target groups in your school.

These ready-to-go slides are designed to work alongside our interventions to supplement quality first teaching and raise attainment in maths for all pupils.

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Boosting maths progress through 1-to-1 conversations...





Success Criteria:

- ☐ I can sort 2D shapes into different groups
- ☐ I can describe how I have sorted shapes using terms like "symmetrical", "side", and "vertex".

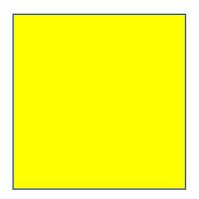
Starter:

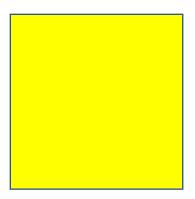
Aisha has found a vertical line of symmetry on a shape. She folded along the line of symmetry and then cut along the line.



These are the identical shapes that she now has.

What was the shape she started with?





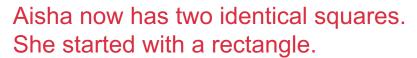
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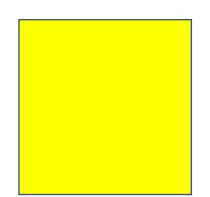
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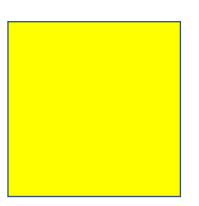


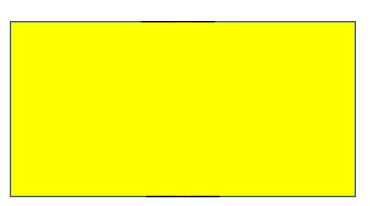
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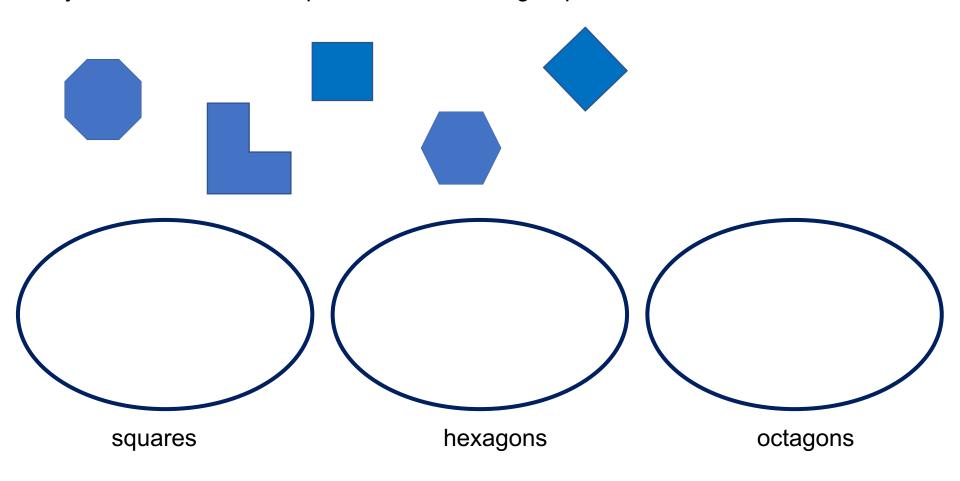




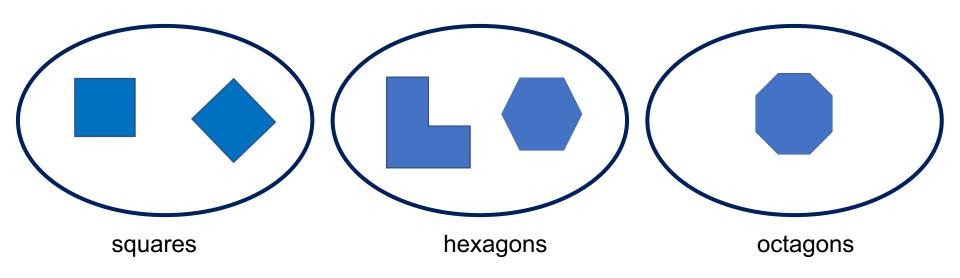




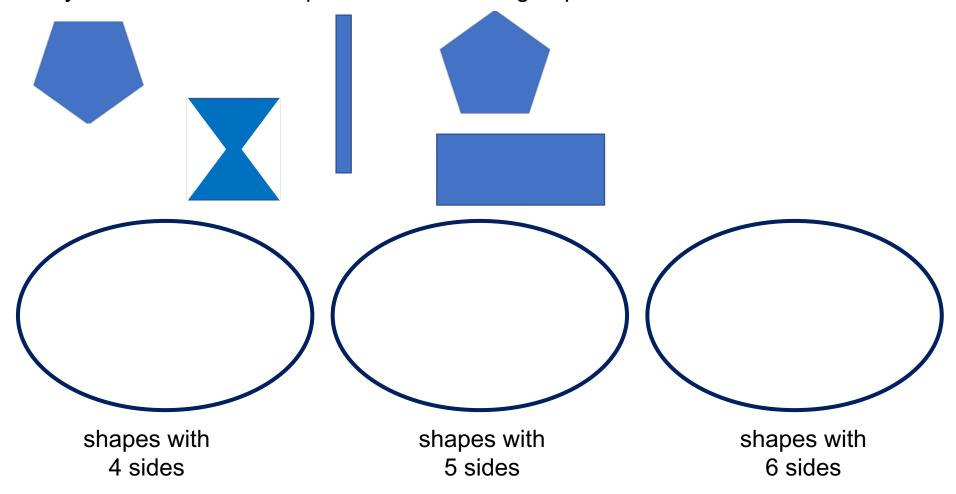
Talking Time:



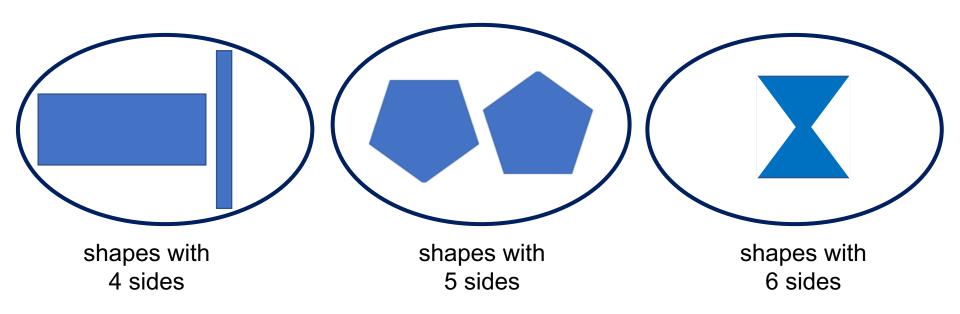
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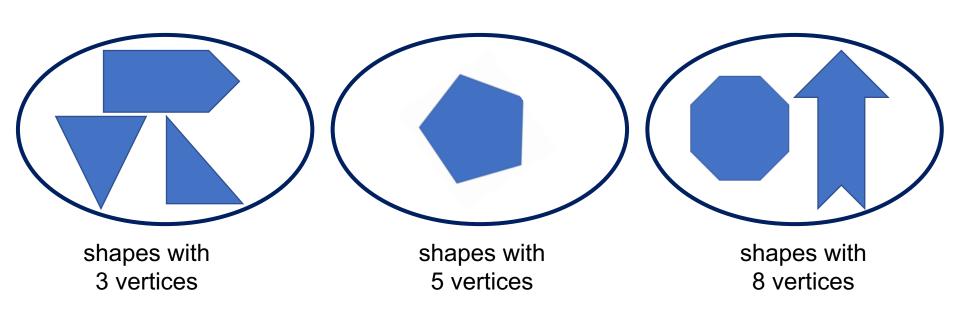
Talking Time:

Some 2-D shapes have been sorted into groups.

However, one of the shapes is in the wrong place.

Which shape is it?

Which group should it have been sorted into?



Talking Time:

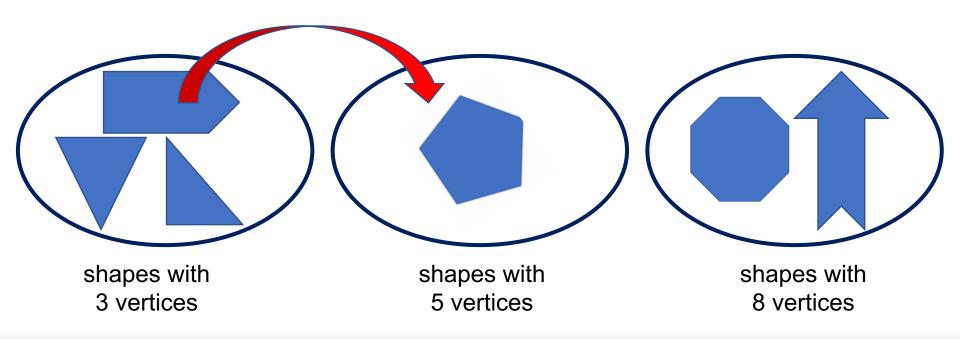
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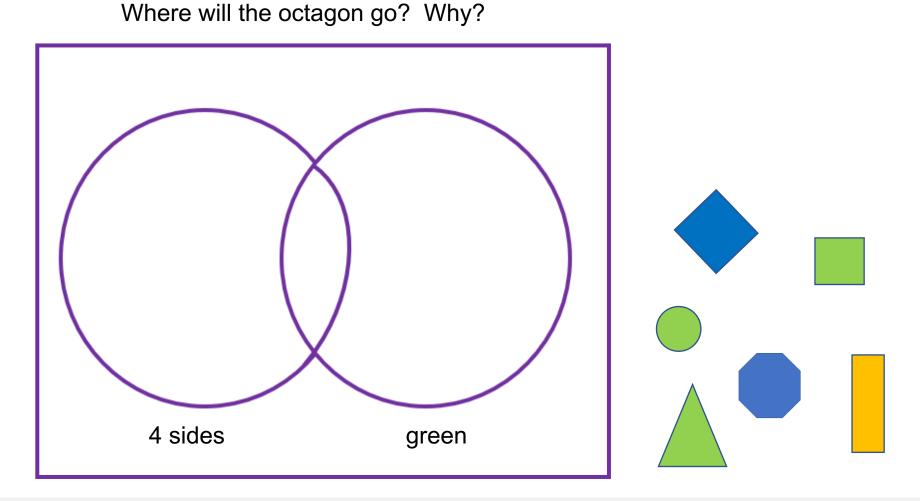
Which group should it have been sorted into?

The irregular pentagon is in the wrong place. It should be in the shapes with 5 vertices group.



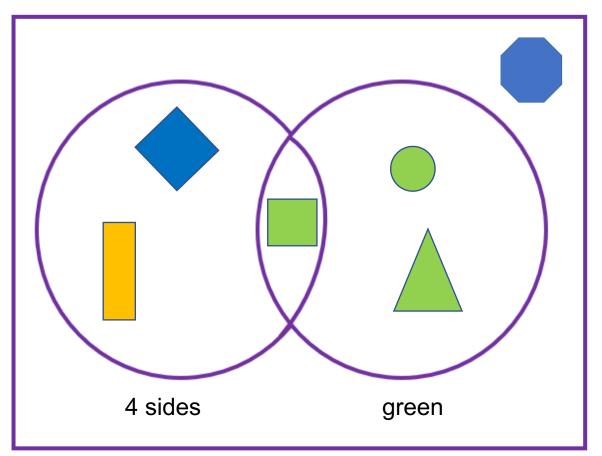
Activity 1: Here is a Venn diagram.

Can you put the shapes into the right places?



Activity 1: Here is a Venn diagram.

Can you put the shapes into the right places? Where will the octagon go? Why?



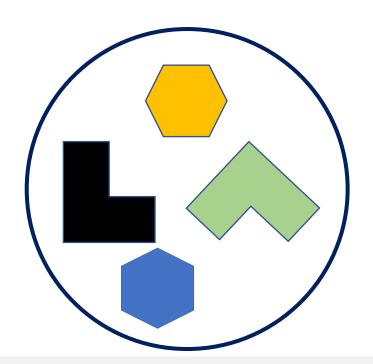
The octagon has more than 4 sides and it is not green. That is why it is not in the hoops and stays outside.

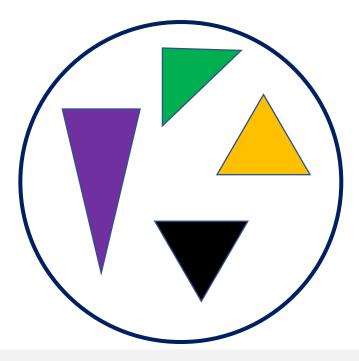
Extension:

Can you use the same shapes and the same sorting diagram, but think of two different labels?

Talking Time:

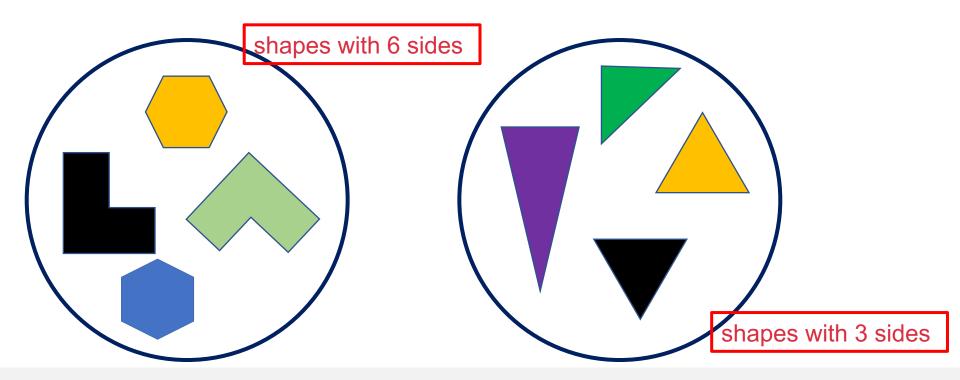
How have these shapes been sorted?
Can you write some labels for the sorting hoops?





Talking Time:

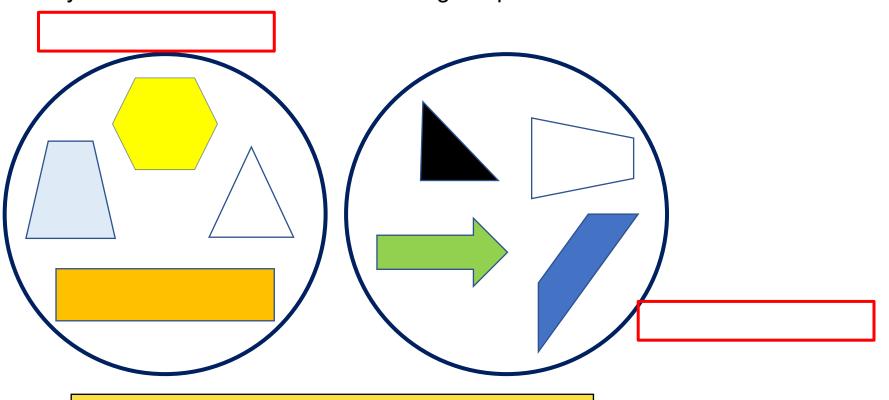
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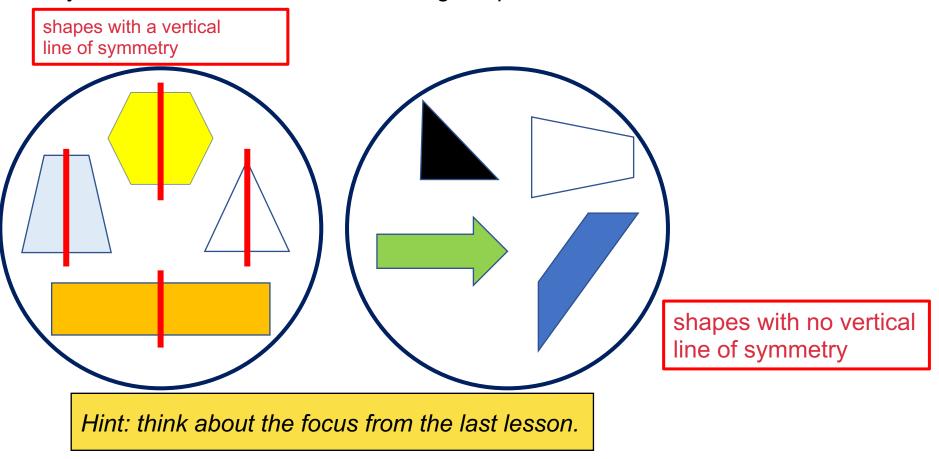
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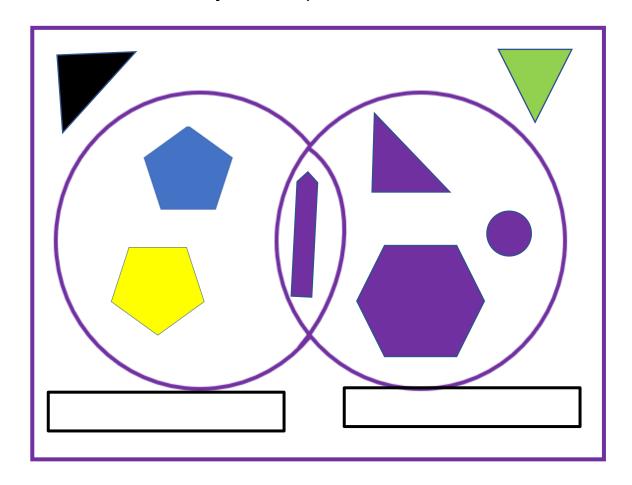
Hint: think about the focus from the last lesson.

Talking Time:

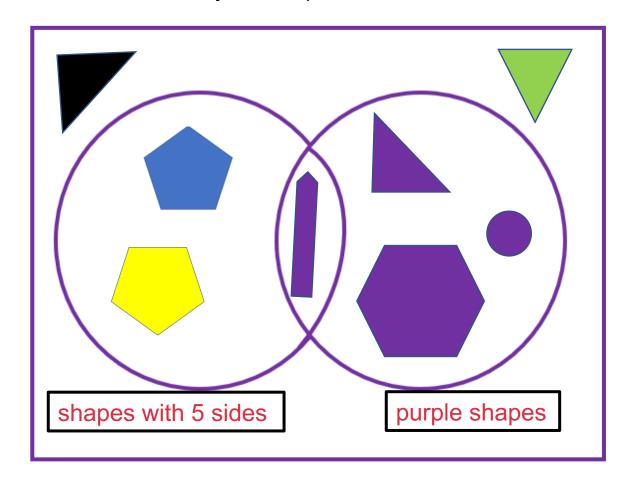
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Talking Time: Some 2-D shapes have been sorted into this Venn diagram. Can you complete the labels?

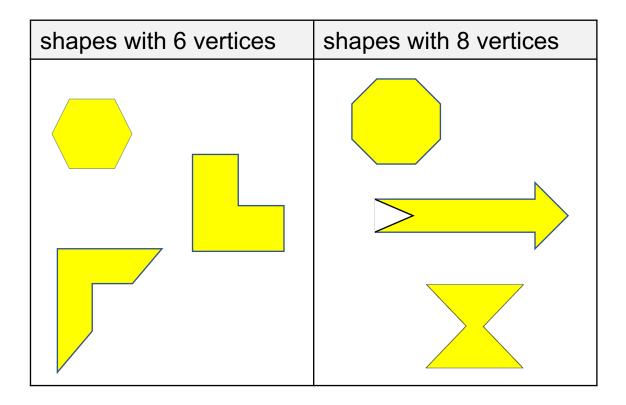


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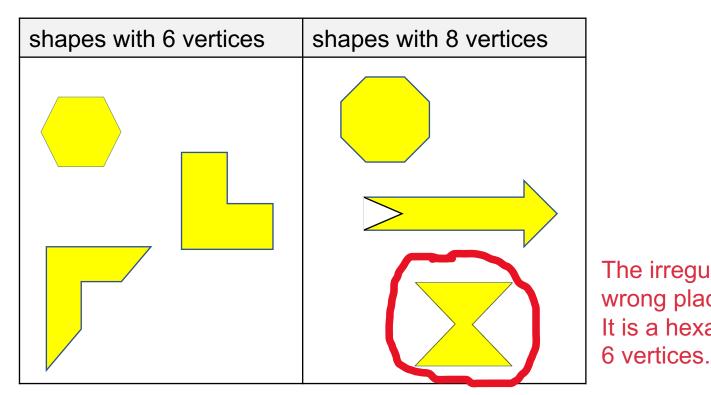
Activity 2:

Can you work out which shape is in the wrong place? Can you explain or show why it should be in the other part of the sorting diagram?



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Can you work out which shape is in the wrong place? Can you explain or show why it should be in the other part of the sorting diagram?



The irregular hexagon is in the wrong place.
It is a hexagon and has

Talking Time:

Jenson is going to sort some shapes by the number of vertices.

He will sort them into this diagram.

Can you draw three shapes that could go into each section?



shapes that have 4 vertices	shapes that do not have 4 vertices

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Can you draw three shapes that could go into each section?



shapes that have 4 vertices	shapes that do not have 4 vertices

This is one set of answers. You may have drawn other shapes for each section.

Talking Time:

Bella is going to sort some shapes by the **number of sides**.

She will sort them into this diagram.

Can you draw three shapes that could go into each section?



shapes that have fewer than 5 sides	shapes that have more than 5 sides



Talking Time:

Bella is going to sort some shapes by the **number of sides**.

She will sort them into this diagram.

Can you draw three shapes that could go into each section?



shapes that have fewer than 5 sides	shapes that have more than 5 sides

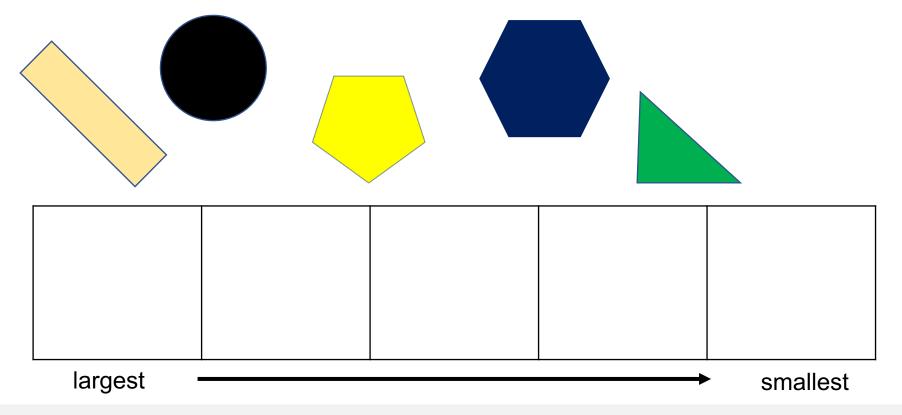


Activity 3:

Freddie is ordering the 2-D shapes below.

He is putting the shape with the **largest** number of vertices **first** and the shape with the **smallest** number of vertices at the end. Can you help him to order the shapes on the track?





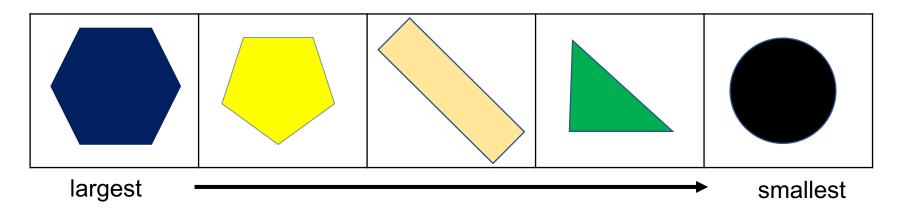


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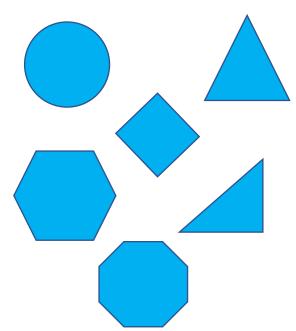


Evaluation:

Here is a collection of 2-D shapes.

Can you decide how you might sort them all into the sorting diagram? Can you write your labels?

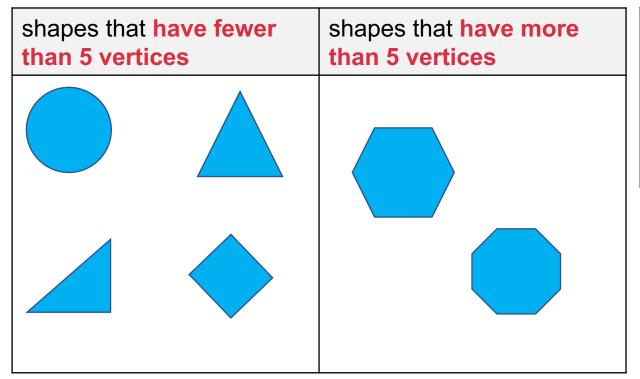
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- ☐ I can sort 2D shapes into different groups
- ☐ I can describe how I have sorted shapes using terms like "symmetrical", "side", and "vertex".

This is one set of answers. There will be others.

Can you explain your answers?

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