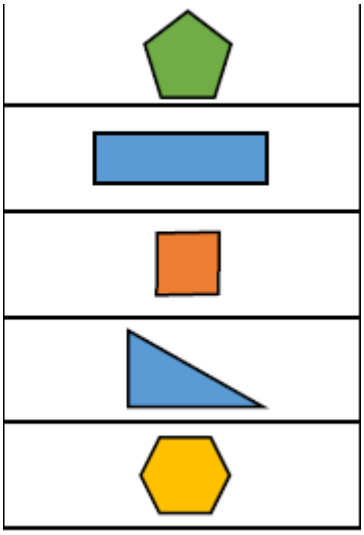
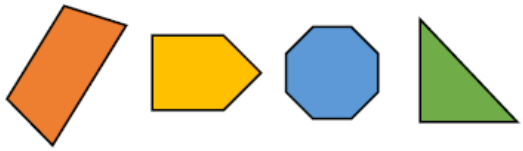
Monday 21st March 2022

MPI: identifying the properties of 2D shapes

Shape	Name of shape	Sides	Vertices
			

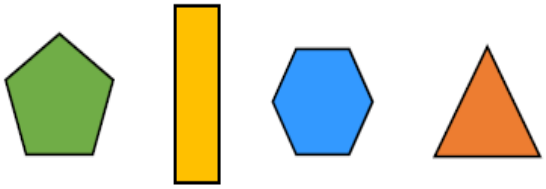
Put these shapes in order from the least number of sides to the most.

Which shape would be third?

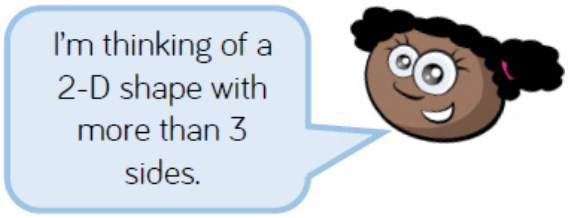


*(least)*_____, _____, _____, _____*(most)*

Put these shapes in order based upon the number of vertices they have.



*(least)*_____ _____ _____ _____*(most)*



What shape could Whitney be thinking of?
Are there any other shapes it could be?
What shape is Whitney definitely not thinking about? How do you know?

Monday 21st March 2022

Reasoning challenge

MPI: identifying the properties of 2D shapes

You have 18 lollipop sticks. What other shapes can you make using all of them? Is there more than one way?

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Reasoning challenge

MPI: identifying the properties of 2D shapes

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Reasoning challenge

MPI: identifying the properties of 2D shapes

You have 18 lollipop sticks. What other shapes can you make using all of them? Is there more than one way?

Tuesday 22nd March 2022

MPI: recognising lines of symmetry

Draw the following shapes.

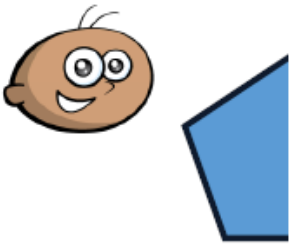
1. *A rectangle that is 4cm long and 3cm wide.*
2. *A square that has a side of 5cm.*

Add the lines of symmetry in red pen.

Draw the vertical lines of symmetry on these shapes.

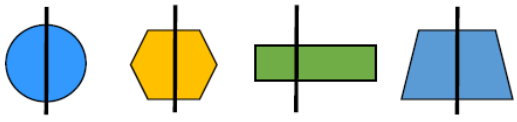
Reasoning challenge

Tommy has placed a mirror on the vertical line of symmetry. This is what he sees:



Can you complete the other half of the shape?

Which shape has got an incorrect line of symmetry?



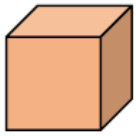
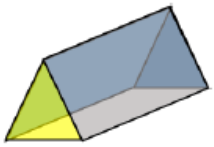
Explain why.

Which shape goes in each part?

	vertical line of symmetry	no vertical line of symmetry
3 sides		
more than 3 sides		

Wednesday 23rd March 2022

MPI: recognising and describing the properties of 3D shapes

Shape	Name of shape	Faces	Edges	Vertices
				
				
				
				

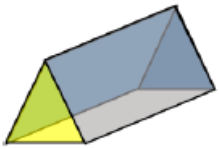
Reasoning challenge

Eva says her 3-D shape has 12 edges.

Dora says she could have a cube, cuboid or square-based pyramid.

Is Dora correct?
Explain your answer.

What is the same about these 2 shapes?



What is different about them?
Talk about faces, edges and vertices in your answer.

Thursday 24th March 2022

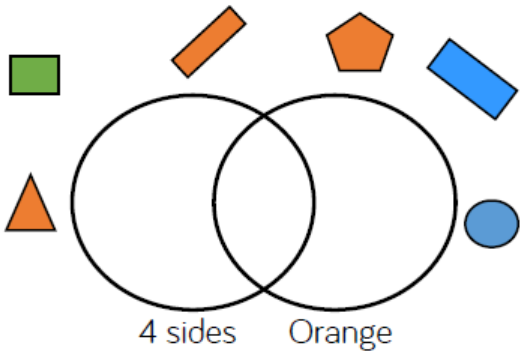
MPI: sorting 2D and 3D shapes

Draw a line from the 2D shapes to the 3D shapes.

2D shape	
Triangle	
Circle	
Square	
Rectangle	
Rhombus	

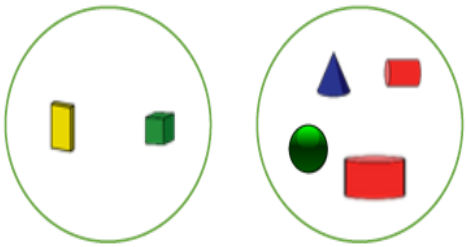
3D shape	
Cuboid	
Diamond	
Pyramid	
Sphere	
Cube	

Where should these shapes go in the Venn diagram?



In your books draw another diagram to show a different way of grouping these 2D shapes.

How are these shapes grouped?

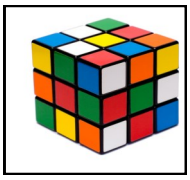
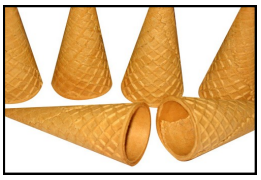


In your books draw another diagram to show a different way of grouping these 3D shapes.

Thursday 24th March 2022

Reasoning challenge

MPI: sorting 2D and 3D shapes



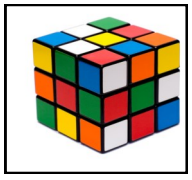
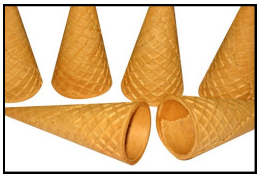


Label the 3D shapes. Then use a Venn diagram or a Carroll diagram to show how you would sort them and explain your thinking.

Thursday 24th March 2022

Reasoning challenge

MPI: sorting 2D and 3D shapes





Label the 3D shapes. Then use a Venn diagram or a Carroll diagram to show how you would sort them and explain your thinking.