

Homework/Extension

Step 6: Sort 2D Shapes

Teaching Note: Where questions involve identifying and/or understanding vertical or horizontal lines of symmetry, the orientation by which the shape is presented within the question needs to remain the same.

National Curriculum Objectives:

Mathematics Year 2: (2G1a) [Compare and sort common 2-D and 3-D shapes and everyday objects](#)

Mathematics Year 2: (2G2a) [Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Select the correct statements for a group of 2D shapes sorted by the number of sides, vertices or vertical lines of symmetry.

Expected Select the correct statements for a group of regular and some irregular 2D shapes sorted by the number of sides, vertices and vertical lines of symmetry.

Greater Depth Select the correct statements for a group of regular and some irregular 2D shapes sorted by the number of sides, vertices and vertical/horizontal lines of symmetry.

Questions 2, 5 and 8 (Varied Fluency)

Developing Identify the possible regular 2D shapes sorted by the number of sides, vertices or vertical lines of symmetry.

Expected Identify the possible regular or irregular 2D shapes sorted by the number of sides, vertices and vertical lines of symmetry.

Greater Depth Identify the possible regular or irregular 2D shapes sorted by the number of sides, vertices and vertical/horizontal lines of symmetry.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Sort the regular 2D shapes by the number of sides, vertices or vertical lines of symmetry.

Expected Sort the regular or irregular 2D shapes by the number of sides, vertices and vertical lines of symmetry.

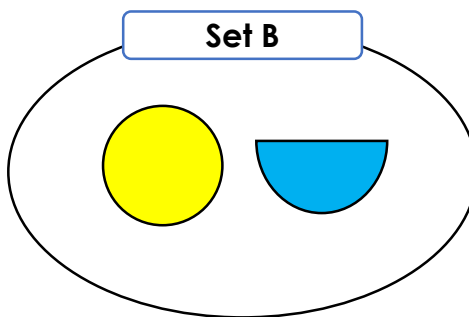
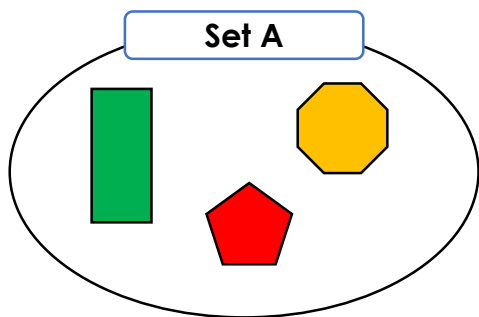
Greater Depth Sort the regular or irregular 2D shapes by the number of sides, vertices and vertical/horizontal lines of symmetry.

More [Year 2 Properties of Shape](#) resources.

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

Sort 2D Shapes

1. Tick the correct statements.



A. Set A is 4 or more vertices and Set B is curved sides.

C. There are no other 2D shapes that could be sorted into Set B.

B. All the shapes in Set A have straight sides.

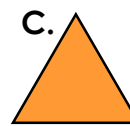
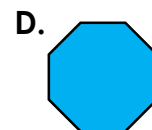
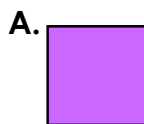
D. A triangle can be added to Set B.



VF
HW/Ext

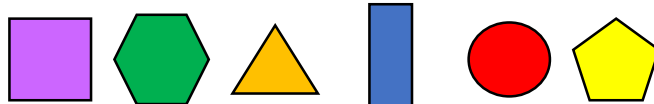
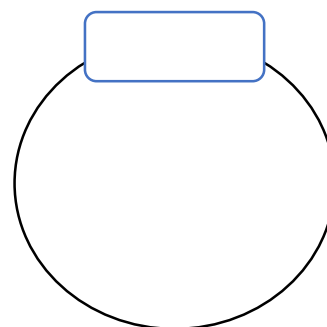
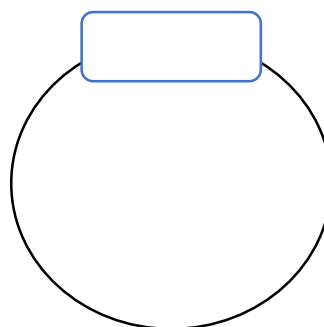
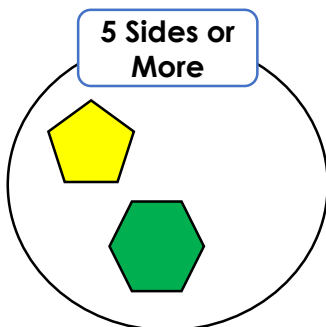
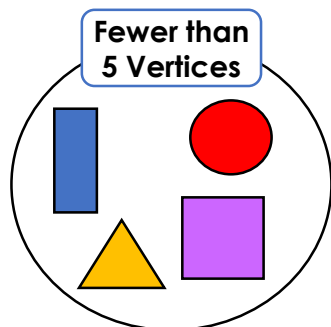
2. Azzam spilt paint on his Carroll diagram. Circle all the shapes that could be covered by the splat.

	Vertical Line of Symmetry	No Vertical Line of Symmetry
Fewer than 5 Sides		
More than 4 Sides		



VF
HW/Ext

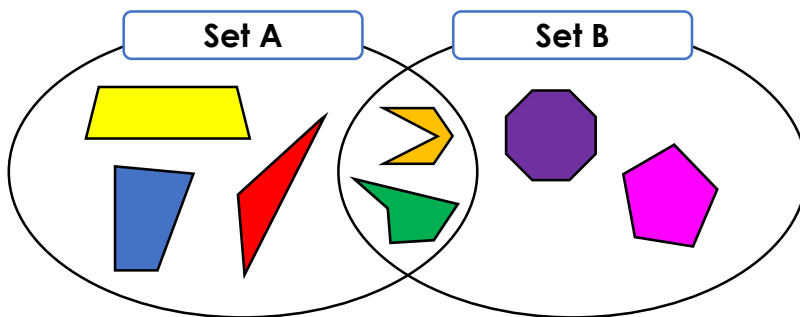
3. Lola has sorted these shapes. Show a different way of sorting the same shapes.



RPS
HW/Ext

Sort 2D Shapes

4. Tick the correct statements.



- A. Set A is irregular shapes and Set B is more than 4 sides.
- B. All the shapes in Set B have 5 sides or more.
- C. All the shapes in Set A have more than 4 vertices.
- D. A rectangle can be added to Set A.



VF
HW/Ext

5. Sam spilt paint on his Carroll diagram. Circle all the shapes that could be covered by the splat.

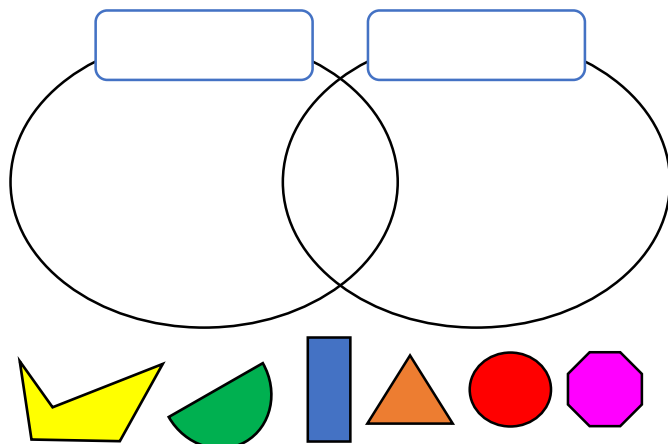
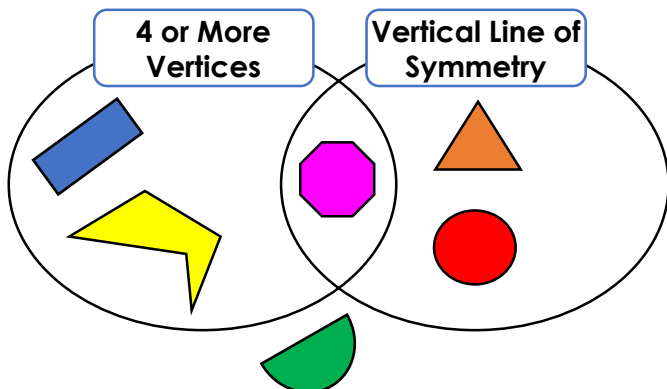
	Vertical Line of Symmetry	No Vertical Line of Symmetry
4 Sides or More		
Fewer than 4 Sides		

- A.
- B.
- C.
- D.
- E.
- F.



VF
HW/Ext

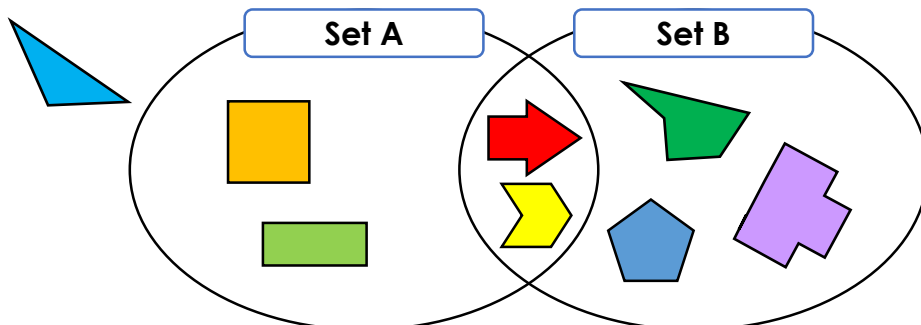
6. Samir has sorted these shapes. Show a different way of sorting the same shapes.



RPS
HW/Ext

Sort 2D Shapes

7. Tick the correct statements.



A. Set A is horizontal lines of symmetry and Set B is more than 4 sides.

C. The triangle has not been sorted.

B. All the shapes in Set A have 4 straight sides.

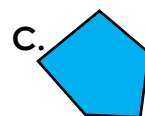
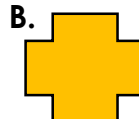
D. A regular octagon can be added to both sets so would go in the middle.



VF
HW/Ext

8. Mia spilt paint on her Carroll diagram. Circle all the shapes that could be covered by the splat.

	Regular	Irregular
6 or More Vertices		
Fewer than 6 Vertices		

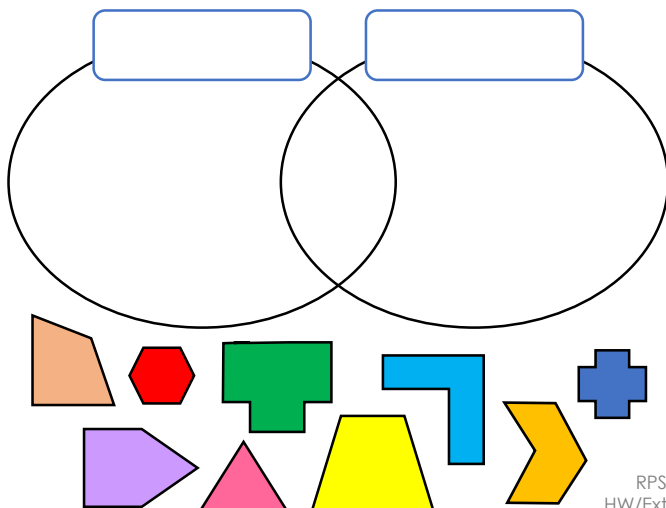
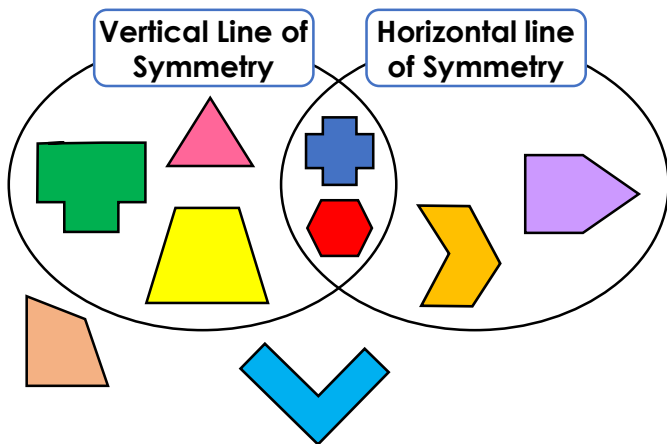


Draw two other shapes that could be hidden by the paint.



VF
HW/Ext

9. Tom has sorted these shapes. Find three different ways of sorting the same shapes.



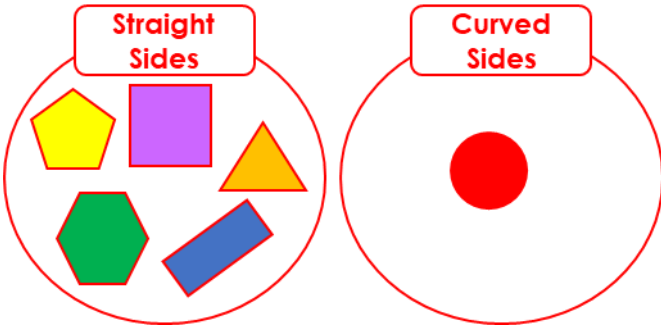
RPS
HW/Ext

Homework/Extension

Sort 2D Shapes

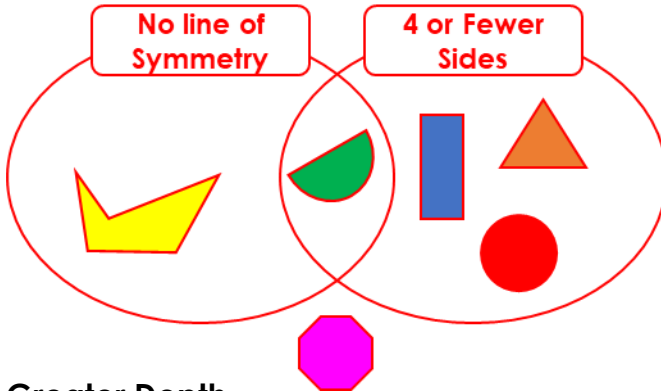
Developing

1. **A, B and C**
2. **A, B, C and E**
3. **Various answers, for example:**



Expected

4. **A and B**
5. **A, D, E and F**
6. **Various answers, for example:**



Greater Depth

7. **A, C and D**
8. **A and C. Accept any drawn shapes that are irregular and have fewer than 6 vertices.**
9. **Various answers, for example:**

