

Homework

Patterns with 2D and 3D Shapes

National Curriculum Objectives:

Mathematics Year 1: (1G1a) Recognise and name common 2-D shapes [for example, rectangles (including squares), circles and triangles]

Mathematics Year 1: (1G1b) Recognise and name common 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Draw the shapes needed to continue the pattern. Using two 2D shapes. Includes squares and circles.

Expected Draw the shapes needed to continue the pattern. Using three 2D shapes. Includes squares, circles and triangles in different orientations.

Greater Depth Draw the shapes needed to continue the pattern. Using four 2D shapes. Includes squares, circles, triangles and rectangles in different orientations and with some mixed dimensions.

Questions 2, 5 and 8 (Varied Fluency)

Developing Tick the correct pattern. Using two 2D and 3D shapes. Includes squares, circles, triangles, rectangles, spheres and triangular-based pyramids.

Expected Tick the correct pattern. Using three 2D and 3D shapes. Includes squares, circles, triangles, rectangles, cubes, cones and cylinders in different orientations.

Greater Depth Tick the correct pattern. Using four 2D and 3D shapes. Includes squares, circles, triangles, rectangles, cones, spheres, cuboids and square-based pyramids in different orientations and with some mixed dimensions.

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

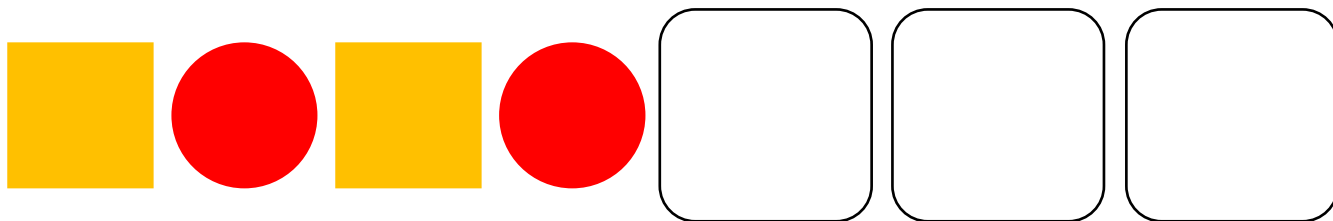
Developing Match the pattern to the next shape needed. Using two 3D shapes. Includes cubes, spheres, cuboids and triangular-based pyramids.

Expected Match the pattern to the next shape needed. Using three 3D shapes. Includes cubes, spheres, cuboids and square-based pyramids in different orientations.

Greater Depth Match the pattern to the next shape needed. Using four 3D shapes. Includes spheres, cones, cuboids and square-based pyramids in different orientations and with some mixed dimensions.

Patterns with 2D and 3D Shapes

1. Draw the correct shapes to continue the pattern below.



VF
HW/Ext

2. Tick the correct pattern.

- A. ☐
- B. ☐
- C. ☐



VF
HW/Ext

3. Match each pattern to the shape that will be needed next.

- A.
- B.
- C.

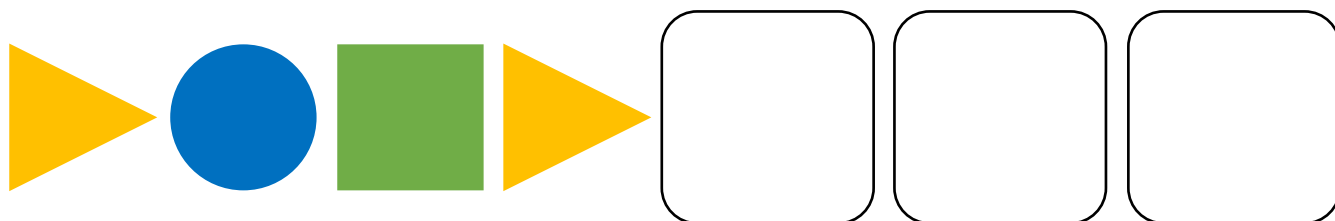
- 1.
- 2.
- 3.



RPS
HW/Ext

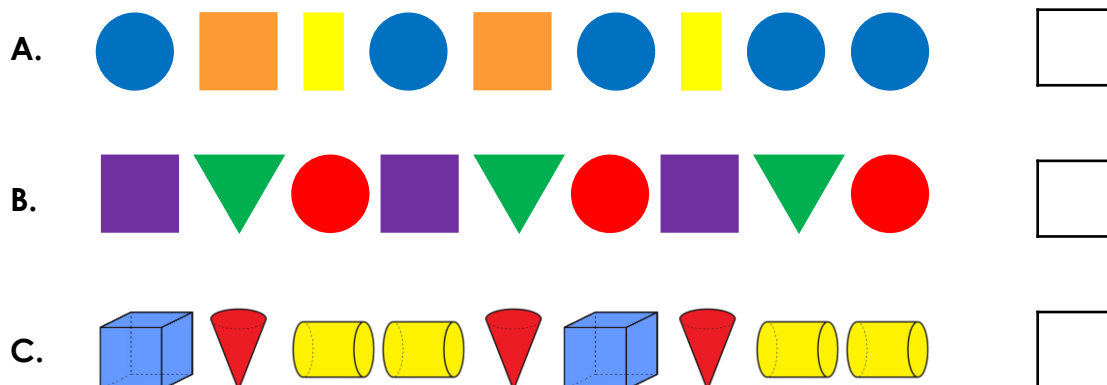
Patterns with 2D and 3D Shapes

4. Draw the correct shapes to continue the pattern below.



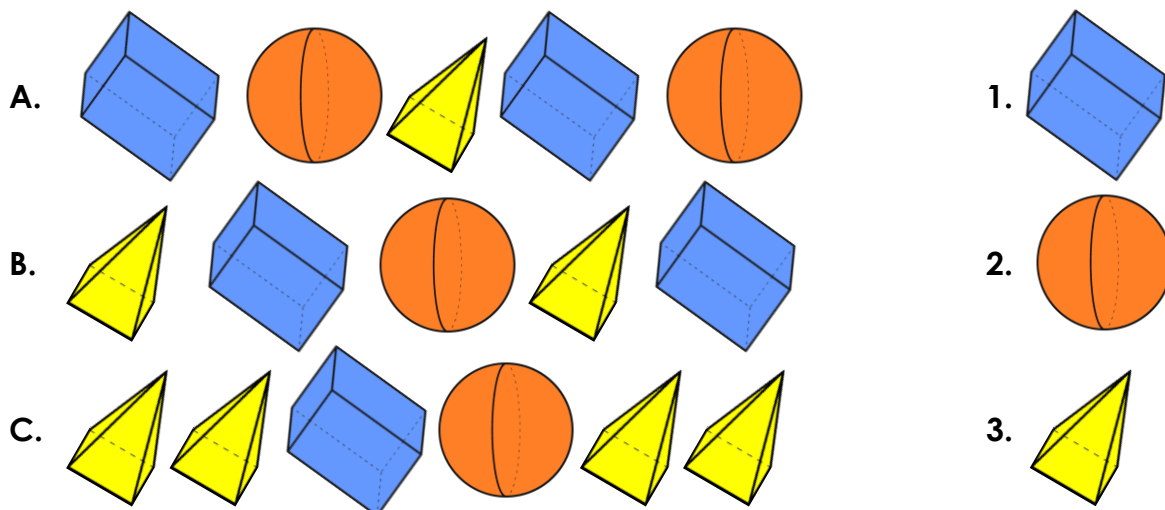
VF
HW/Ext

5. Tick the correct pattern.



VF
HW/Ext

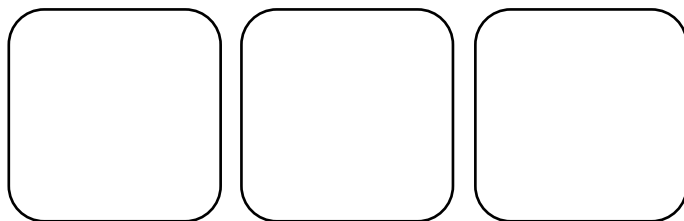
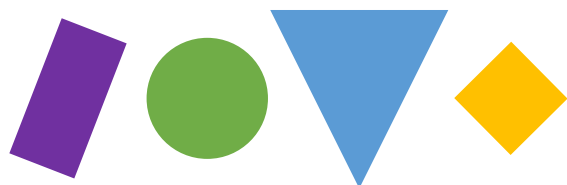
6. Match each pattern to the shape that will be needed next.



RPS
HW/Ext

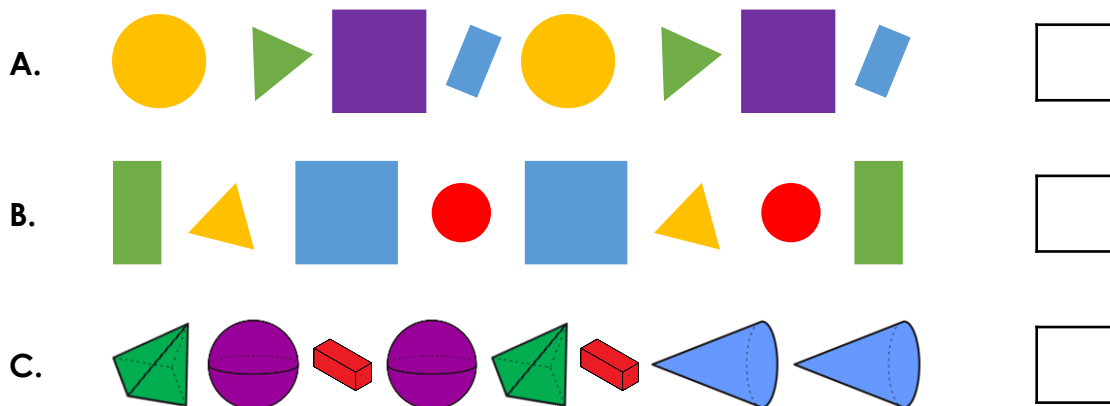
Patterns with 2D and 3D Shapes

7. Draw the correct shapes to continue the pattern below.



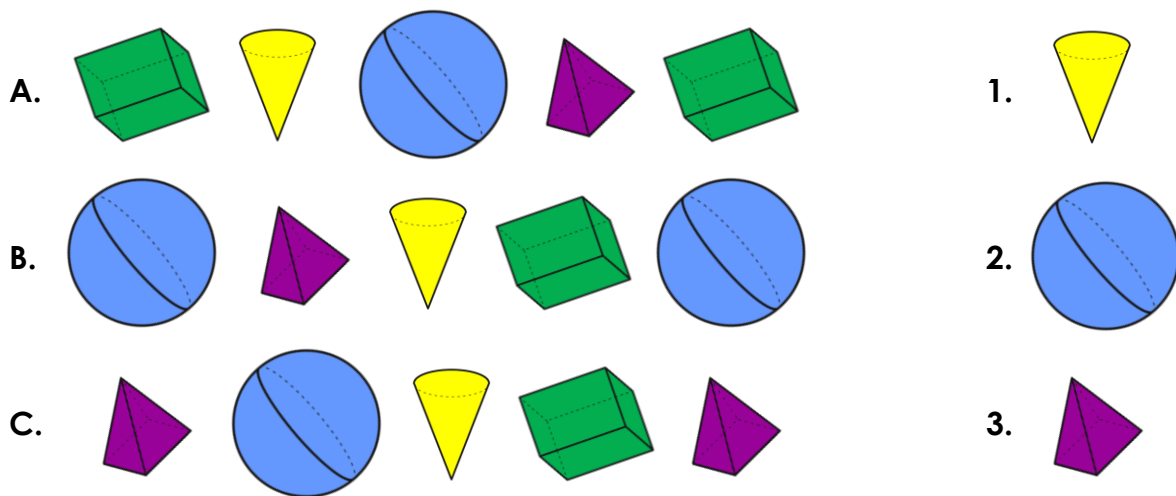
VF
HW/Ext

8. Tick the correct pattern.



VF
HW/Ext

9. Match each pattern to the shape that will be needed next.



RPS
HW/Ext

Homework

Patterns with 2D and 3D Shapes

Developing

1. square, circle, square
2. A
3. A – 3, B – 1, C – 2

Expected

4. circle, square, triangle
5. B
6. A – 3, B – 2, C – 1

Greater Depth

7. rectangle, circle, triangle
8. A
9. A – 1, B – 3, C – 2