

Varied Fluency

Step 5: 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:

Developing Questions displaying simple patterns using 2 shapes. Each question using all 2D or 3D shapes. Includes squares, circles, triangles, rectangles, cubes, spheres, cuboids and triangular-based pyramids.

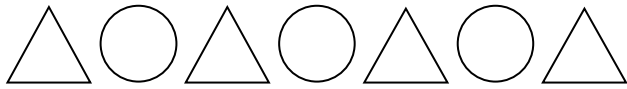
Expected Questions displaying patterns using 3 or 4 shapes with different orientations. Each question using all 2D or 3D shapes. Includes squares, circles, triangles, rectangles, cubes, spheres, cuboids, square and triangular-based pyramids, cylinders and cones.

Greater Depth Questions displaying patterns of increasing complexity using up to 4 shapes, with different orientations and some mixed dimensions. Includes squares, circles, triangles, rectangles, cubes, cuboids, spheres, cones and pyramids and prisms with a variety of shaped bases.

More [Year 1 Shape](#) resources.

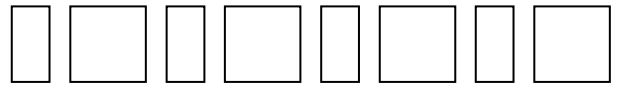
Did you like this resource? Don't forget to [review](#) it on our website.

1a. Colour the shapes to create a pattern.



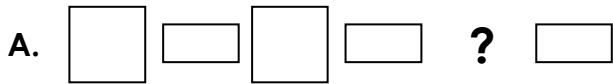
VF

1b. Colour the shapes to create a pattern.



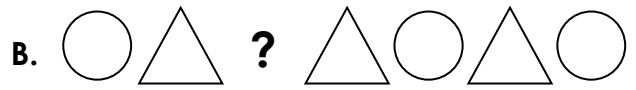
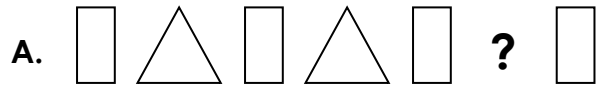
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2a. Draw the missing shape in these patterns.



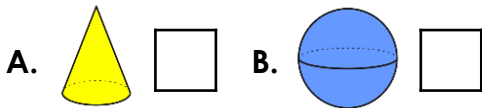
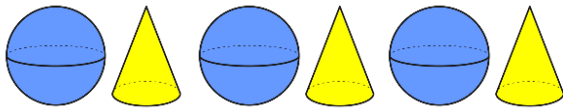
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2b. Draw the missing shape in these patterns.



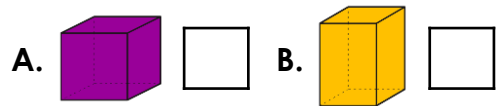
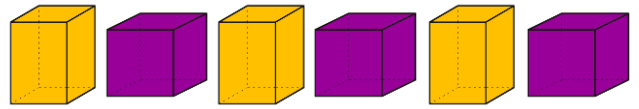
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3a. Tick the shape that continues the pattern.



VF

3b. Tick the shape that continues the pattern.



VF

4a. True or false?



The next shape in my pattern will be a sphere.

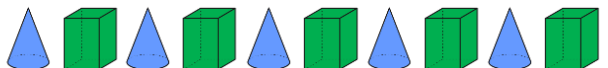


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4b. True or false?

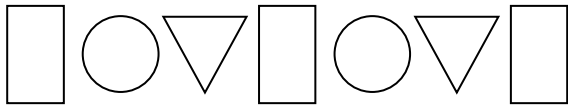


The next shape in my pattern will be a cuboid.



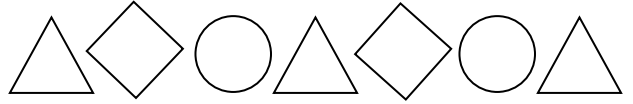
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5a. Colour the shapes to create a pattern.



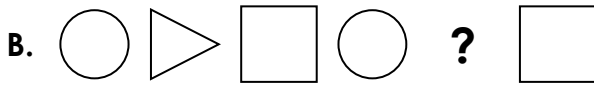
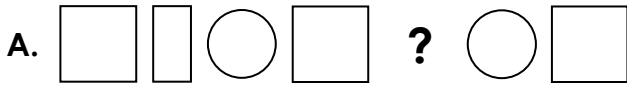
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5b. Colour the shapes to create a pattern.



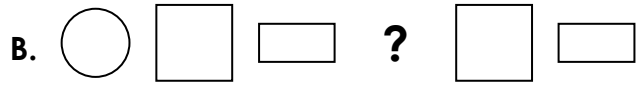
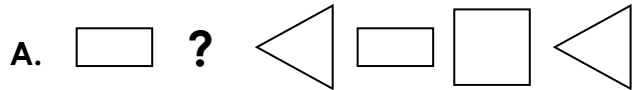
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6a. Draw the missing shape in these patterns.



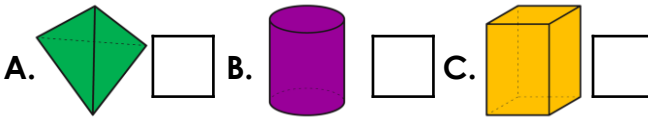
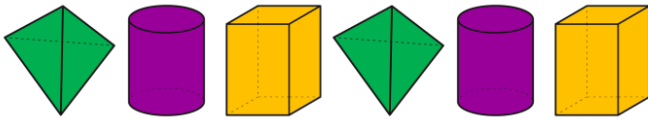
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6b. Draw the missing shape in these patterns.



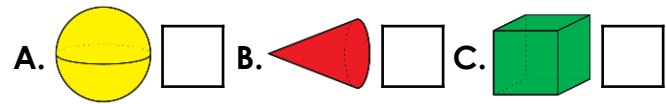
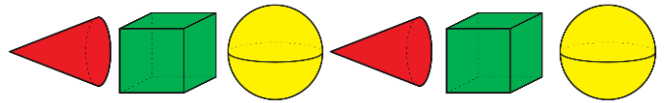
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7a. Tick the shape that continues the pattern.



VF

7b. Tick the shape that continues the pattern.



VF

8a. True or false?



The next shape in my pattern will be a cylinder.

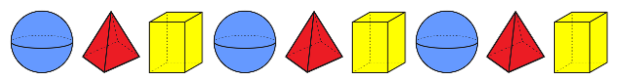


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8b. True or false?



The next shape in my pattern will be a sphere.

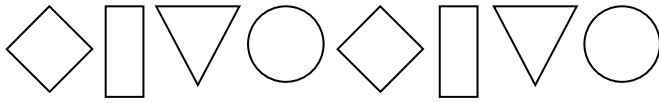


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Patterns with 2D and 3D Shapes

Patterns with 2D and 3D Shapes

9a. Colour the shapes to create a pattern.



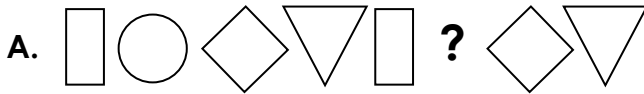
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9b. Colour the shapes to create a pattern.



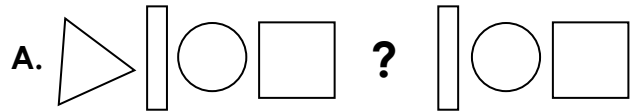
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10a. Draw the missing shape in these patterns.



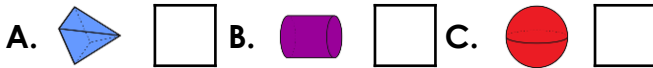
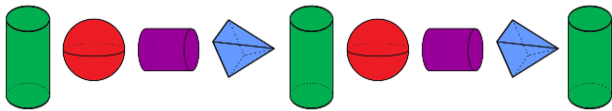
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10b. Draw the missing shape in these patterns.



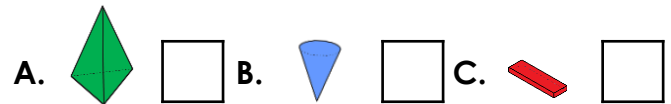
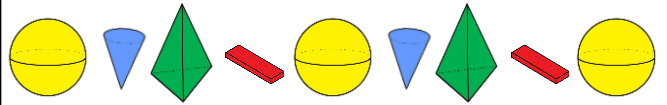
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11a. Tick the shape that continues the pattern.



VF

11b. Tick the shape that continues the pattern.

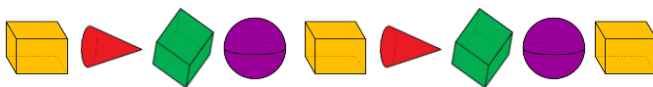


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12a. True or false?



The next shape in my pattern will be a cube.

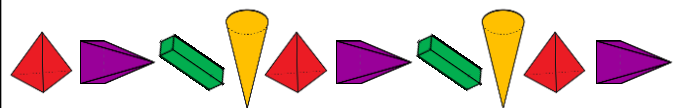


VF

12b. True or false?



The next shape in my pattern will be a cuboid.



VF

Varied Fluency

Patterns with 2D and 3D Shapes

Developing

- 1a. Various answers: shapes to be coloured in AB pattern.
- 2a. A. square, B. rectangle
- 3a. B
- 4a. True

Expected

- 5a. Various answers: shapes to be coloured in ABC pattern.
- 6a. A. rectangle, B. triangle
- 7a. A
- 8a. False, it will be a sphere.

Greater Depth

- 9a. Various answers: shapes to be coloured in ABCD pattern.
- 10a. A. circle, B. rectangle
- 11a. C
- 12a. False, it will be a cone.

Varied Fluency

Patterns with 2D and 3D Shapes

Developing

- 1b. Various answers: shapes to be coloured in AB pattern.
- 2b. A. triangle, B. circle
- 3b. B
- 4b. False, it will be a cone.

Expected

- 5b. Various answers: shapes to be coloured in ABC pattern.
- 6b. A. square, B. circle
- 7b. B
- 8b. True

Greater Depth

- 9b. Various answers: shapes to be coloured in ABCD pattern.
- 10b. A. triangle, B. circle
- 11b. B
- 12b. True