

Homework/Extension

Step 1: 3D Shapes

National Curriculum Objectives:

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 Count the number of each given shape. Using 3D shapes in the same orientation, with perspective lines visible.

Expected Count the number of each given shape. Using 3D shapes in different orientations, with some perspective lines visible.

Greater Depth Count the number of each given shape. Using 3D shapes in different orientations, with no perspective lines visible and including real-life objects.

Questions 2, 5 and 8 (Varied Fluency)

Developing Name the 3D shapes using a given word bank. Using 3D shapes in the same orientation, with perspective lines visible.

Expected Name the 3D shapes using a given word bank. Using 3D shapes in different orientations, with some perspective lines visible.

Greater Depth Name the 3D shapes using a given word bank. Using 3D shapes in different orientations, with no perspective lines visible and including real-life objects.

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

Developing Explain if the shapes have been sorted correctly. Using knowledge of recognising 3D shapes in the same orientation, with perspective lines visible.

Expected Explain if the shapes have been sorted correctly. Using knowledge of recognising 3D shapes in different orientations, with some perspective lines visible.

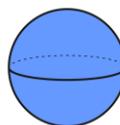
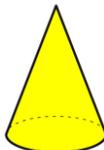
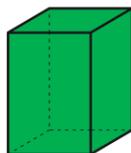
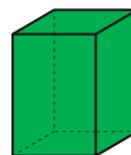
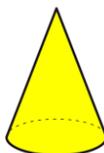
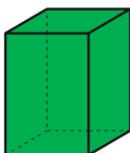
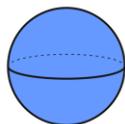
Greater Depth Explain if the shapes have been sorted correctly. Using knowledge of recognising 3D shapes in different orientations, with no perspective lines visible and including real-life objects.

More [Year 1 3D Shapes](#) resources.

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

3D Shapes

1. Cath is counting the shapes. How many of each shape does she have?



spheres

cuboids

cones



VF
HW/Ext

2. Complete the table by naming the 3D shapes. Use the word bank to help you.

1.		
2.		
3.		

square-based
pyramid

cylinder

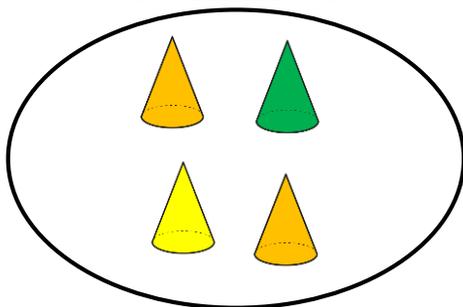
sphere



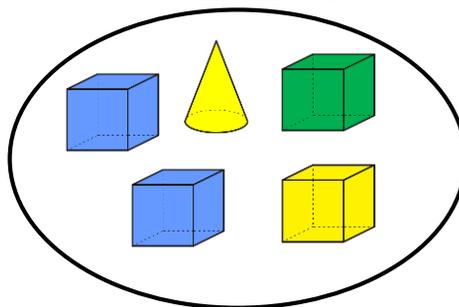
VF
HW/Ext

3. Byron has sorted the 3D shapes into two groups.

cones



cubes



Byron

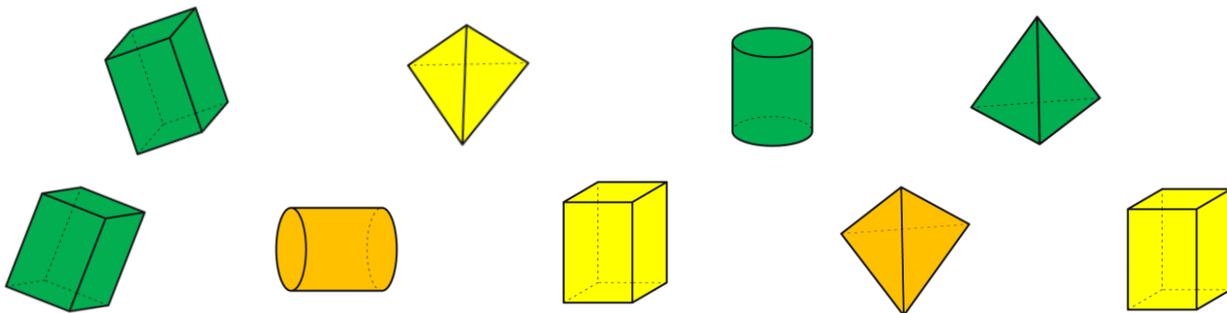
Is he correct? Convince me!



RPS
HW/Ext

3D Shapes

4. Jacob is counting the shapes. How many of each shape does he have?



cuboids

triangular-based
pyramids

cylinders



VF
HW/Ext

5. Complete the table by naming the 3D shapes. Use the word bank to help you.

1.		
2.		
3.		
4.		

cuboid

cylinder

cube

square-based
pyramid



VF
HW/Ext

6. Jade has sorted the 3D shapes into two groups.

cylinders

cuboids



Jade

Is she correct? Convince me!



RPS
HW/Ext

3D Shapes

7. John is counting the shapes. How many of each shape does he have?



cylinders

square-based
pyramids

cubes



VF
HW/Ext

8. Complete the table by naming the 3D shapes. Use the word bank to help you.

1.		
2.		
3.		
4.		

cone

cylinder

sphere

triangular-based
pyramid

cuboid

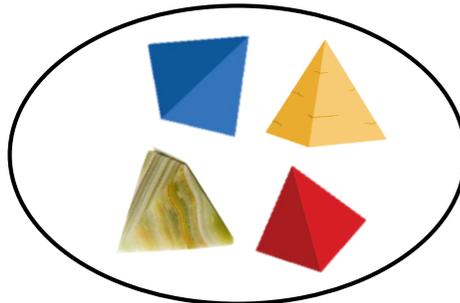


VF
HW/Ext

9. Carlton has sorted the 3D shapes into two groups.

cylinders

cuboids



Carlton

Is he correct? Convince me!



RPS
HW/Ext

Homework/Extension

3D Shapes

Developing

1. Spheres → 2, cuboids → 3, cones → 2
2. 1. sphere; 2. square-based pyramid; 3. cylinder
3. Byron is incorrect because he has put a cone in the second circle instead of a cube.

Expected

4. Cuboids → 4, triangular-based pyramids → 3, cylinders → 2
5. 1. square-based pyramid; 2. cylinder; 3. cuboid; 4. cube
6. Jade is incorrect because she has labelled her groups incorrectly. The labels need to be swapped over.

Greater Depth

7. Cylinders → 4, square-based pyramids → 3, cubes → 3
8. 1. sphere; 2. cylinder; 3. cone; 4. triangular-based pyramid
9. Carlton is incorrect because he has labelled the second circle cuboids instead of square-based pyramids.