

# 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.

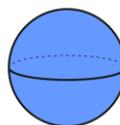
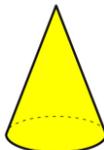
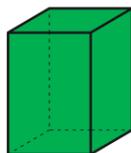
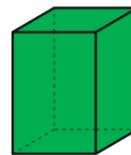
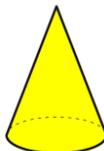
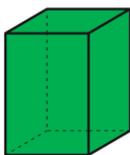
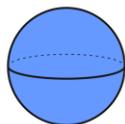
**Greater Depth** Explain if the shapes have been sorted correctly. Using knowledge of recognising 3D shapes in different orientations, with no perspective lines visible and including real-life objects.

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

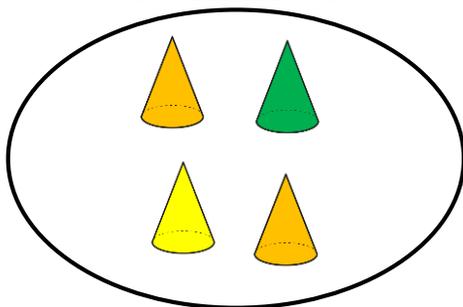
sphere



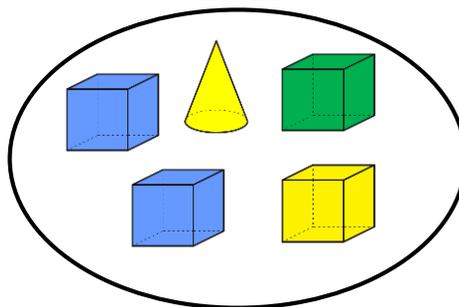
VF  
HW/Ext

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

cones



cubes



Byron

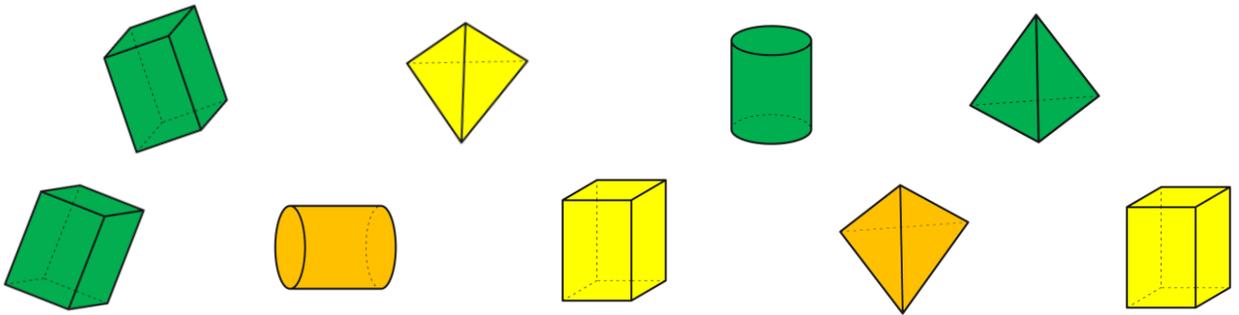
Is he correct? Convince me!



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

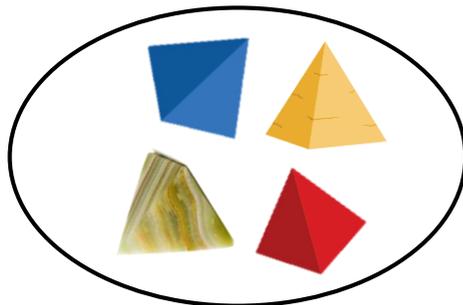


VF  
HW/Ext

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.