

Varied Fluency

Step 8: Count Faces on 3D Shapes

National Curriculum Objectives:

Mathematics Year 2: (2G2b) [Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces](#)

Mathematics Year 2: (2G3) [Identify 2-D shapes on the surface of 3-D shapes, \[for example, a circle on a cylinder and a triangle on a pyramid\]](#)

Differentiation:

Developing Questions to support counting the number of faces on 3D shapes. Includes cubes, cuboids, spheres, cylinders, cones and square based pyramids.

Expected Questions to support counting the number of faces on 3D shapes. Includes cubes, cuboids, spheres, cylinders, cones, triangular and square based pyramids and prisms.

Greater Depth Questions to support counting the number of faces on 3D shapes. Includes cubes, cuboids, spheres, cylinders, cones, triangular and more complex pyramids and prisms with a variety of bases.

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

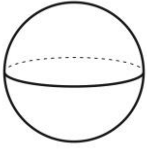
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Count Faces on 3D Shapes

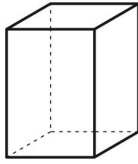
Count Faces on 3D Shapes

1a. Circle the shape with 6 faces.

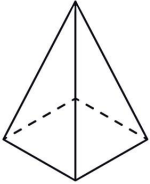
A



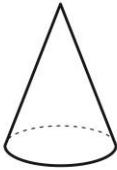
B



C



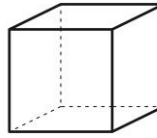
D



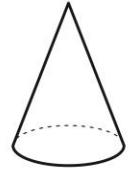
VF

1b. Circle the shape with 5 faces.

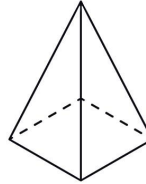
A



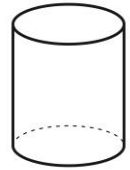
B



C



D



VF

2a. True or false?

The object below has 1 curved surface.



VF

2b. True or false?

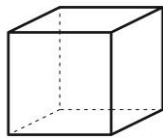
The object below has 3 flat faces.



VF

3a. Complete the sentence below.

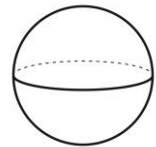
The shape has flat faces and curved surfaces.



VF

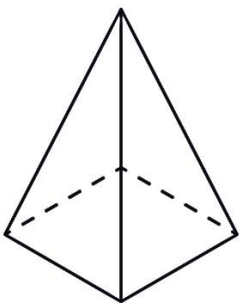
3b. Complete the sentence below.

The shape has flat faces and curved surface.



VF

4a. Circle the 2D shapes you can see on the flat faces of the 3D shape.



1



2

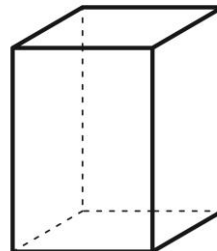


3



VF

4b. Circle the 2D shapes you can see on the flat faces of the 3D shape.



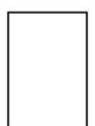
1



2



3



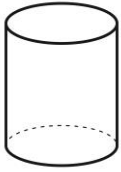
VF

Count Faces on 3D Shapes

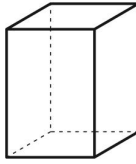
Count Faces on 3D Shapes

5a. Circle the shape with 7 faces.

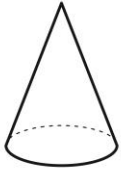
A



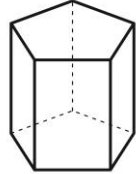
B



C



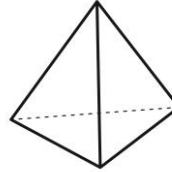
D



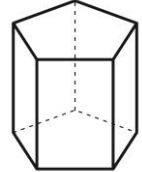
VF

5b. Circle the shape with 4 faces.

A



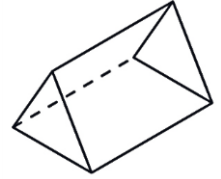
B



C



D



VF

6a. True or false?

The object below has 2 curved surfaces.



VF

6b. True or false?

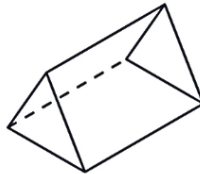
The object below has 6 flat faces.



VF

7a. Complete the sentence below.

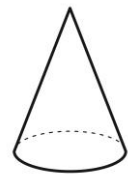
The shape has flat faces and curved surfaces.



VF

7b. Complete the sentence below.

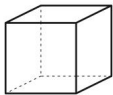
The shape has flat face(s) and curved surface(s).



VF

8a. Which 2D shapes can you see on the flat faces of the 3D shapes?

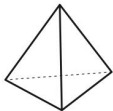
A



1



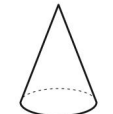
B



2



C



3



VF

8b. Which 2D shapes can you see on the flat faces of the 3D shapes?

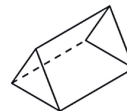
A



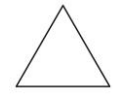
1



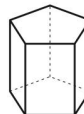
B



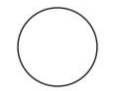
2



C



3



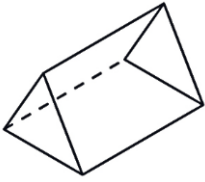
VF

Count Faces on 3D Shapes

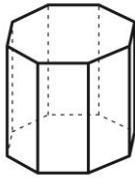
Count Faces on 3D Shapes

9a. Circle the shape with 7 faces.

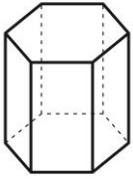
A



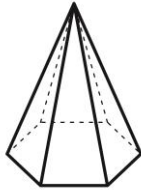
B



C



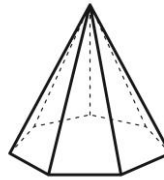
D



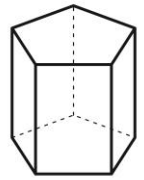
VF

9b. Circle the shape with 10 faces.

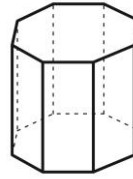
A



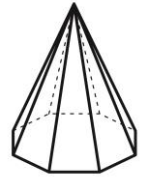
B



C



D



VF

10a. True or false?

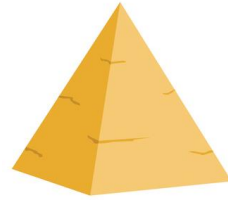
The object below has 2 curved surfaces.



VF

10b. True or false?

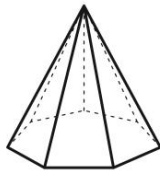
The object below has 3 flat faces.



VF

11a. Complete the sentence below.

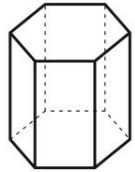
The shape has flat faces and curved surfaces.



VF

11b. Complete the sentence below.

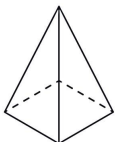
The shape has flat faces and curved surfaces.



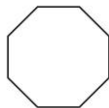
VF

12a. Which 2D shapes can you see on the flat faces of the 3D shapes?

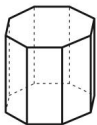
A



1



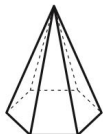
B



2



C



3



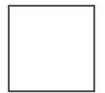
VF

12b. Which 2D shapes can you see on the flat faces of the 3D shapes?

A



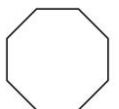
1



B



2



C



3



VF

Varied Fluency Count Faces on 3D Shapes

Developing

- 1a. **B**
- 2a. **True**
- 3a. **The shape has 6 flat faces and 0 curved surfaces.**
- 4a. **2 and 3**

Expected

- 5a. **D**
- 6a. **False – the shape has 1 curved surface and 2 flat faces.**
- 7a. **The shape has 5 flat faces and 0 curved surfaces.**
- 8a. **A2; B3; C1**

Greater Depth

- 9a. **D**
- 10a. **False – the shape has 1 curved surface and 1 flat surface.**
- 11a. **The shape has 8 flat faces and 0 curved surfaces.**
- 12a. **A3; B1; C2.**

Varied Fluency Count Faces on 3D Shapes

Developing

- 1b. **C**
- 2b. **False – the object has 6 flat faces.**
- 3b. **The shape has 0 flat faces and 1 curved surfaces.**
- 4b. **1 and 3**

Expected

- 5b. **A**
- 6b. **True**
- 7b. **The shape has 1 flat face and 1 curved surface.**
- 8b. **A3; B2; C1.**

Greater Depth

- 9b. **C.**
- 10b. **False – the shape has 5 flat faces.**
- 11b. **The shape has 8 flat faces and 0 curved surfaces.**
- 12b. **A2; B1; C3.**