

Varied Fluency

Step 9: Count Edges 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](#)

Differentiation:

Developing Questions to support counting the number of edges on 3D shapes. All shapes presented in the same orientation and size. Perspective lines visible on all shapes.

Expected Questions to support counting the number of edges on 3D shapes. All shapes presented in different orientations and sizes. Perspective lines visible on some shapes.

Greater Depth Questions to support counting the edges on 3D shapes. All shapes presented in different orientations and sizes. No perspective lines visible on shapes and with some use of real-life objects.

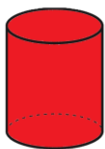
More [Year 2 Properties of Shape](#) resources.

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

Count Edges on 3D Shapes

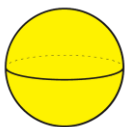
1a. Match the 3D shapes to the correct number of edges.

A.



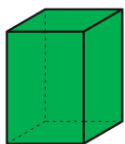
12 edges

B.



1 edge

C.



2 edges

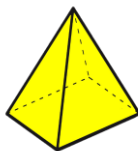


VF

Count Edges on 3D Shapes

1b. Match the 3D shapes to the correct number of edges.

A.



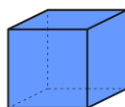
6 edges

B.



12 edges

C.



8 edges

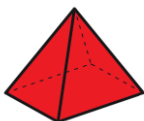
1 edge



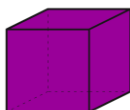
VF

2a. Tick the shape below that has 2 edges.

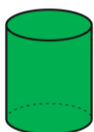
A.


☐

B.


☐

C.


☐

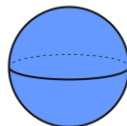

VF

2b. Tick the shape below that has 0 edges.

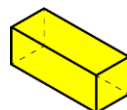
A.


☐

B.

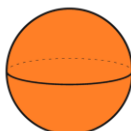
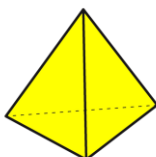
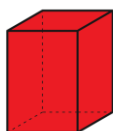

☐

C.


☐


VF

3a. Bobby is describing one of the 3D shapes below.



He says,



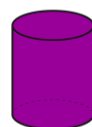
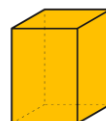
My shape has 12 edges.

What shape is Bobby describing?



VF

3b. Alina is describing one of the 3D shapes below.



She says,



My shape has 2 edges.

What shape is Alina describing?

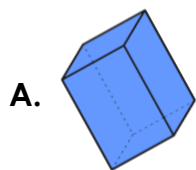


VF

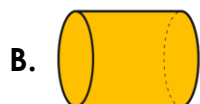
Count Edges on 3D Shapes

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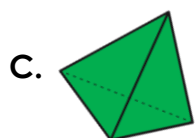
4a. Match the 3D shapes to the correct number of edges.



2 edges



6 edges

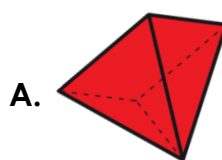


12 edges



VF

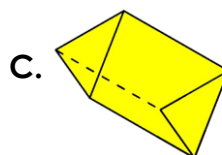
4b. Match the 3D shapes to the correct number of edges.



9 edges



1 edge



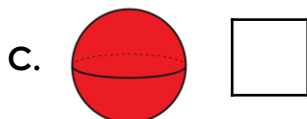
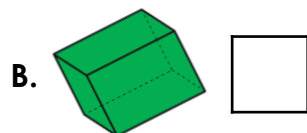
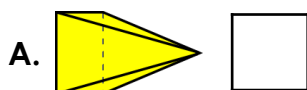
2 edges

8 edges



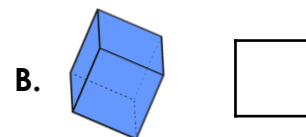
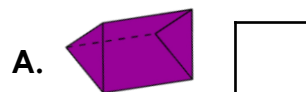
VF

5a. Tick the shape below that has 8 edges.



VF

5b. Tick the shape below that has 12 edges.



VF

6a. Ella is describing one of the 3D shapes below.



She says,



My shape has 2 edges.

What shape is Ella describing?



VF

6b. Oscar is describing one of the 3D shapes below.



He says,



My shape has 6 edges.

What shape is Oscar describing?



VF

Count Edges on 3D Shapes

Count Edges on 3D Shapes

7a. Match the 3D shapes to the correct number of edges.

A.



8 edges

B.



2 edges

C.



12 edges

9 edges



VF

7b. Match the 3D shapes to the correct number of edges.

A.



2 edges

B.



0 edges

9 edges

C.



12 edges



VF

8a. Tick the shape below that has 12 edges.

A.



B.



C.



VF

8b. Tick the shape below that has 18 edges.

A.



B.



C.



VF

9a. Eshan is describing one of the 3D shapes below.



He says,



My shape has 8 edges.

What shape is Eshan describing?



VF

9b. Rosa is describing one of the 3D shapes below.



She says,



My shape has 1 edge.

What shape is Rosa describing?



VF

Varied Fluency
Count Edges on 3D Shapes

Developing

1a. **A = 2 edges; B = 0 edges; C = 12 edges**

2a. **C**

3a. **cuboid**

Expected

4a. **A = 12 edges; B = 2 edges; C = 6 edges**

5a. **A**

6a. **cylinder**

Greater Depth

7a. **A = 9 edges; B = 2 edges; C = 12 edges**

8a. **C**

9a. **square-based pyramid**

Varied Fluency
Count Edges on 3D Shapes

Developing

1b. **A = 8 edges; B = 1 edge; C = 12 edges**

2b. **B**

3b. **cylinder**

Expected

4b. **A = 8 edges; B = 1 edge; C = 9 edges**

5b. **B**

6b. **triangular-based pyramid**

Greater Depth

7b. **A = 0 edges; B = 2 edges; C = 12 edges**

8b. **A**

9b. **cone**