

Homework/Extension

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:

Questions 1, 4 and 7 (Varied Fluency)

Developing Use the given cards to complete the table. All 3D shapes presented in the same orientation with visible perspective lines.

Expected Use the given cards to complete the table. 3D shapes presented in the different orientations with visible perspective lines.

Greater Depth Use the given cards to complete the table. 3D shapes presented in the different orientations with no visible perspective lines.

Questions 2, 5 and 8 (Varied Fluency)

Developing Identify the shapes with a given number of edges. All 3D shapes presented in the same orientation and size with visible perspective lines.

Expected Identify the shapes with a given number of edges. 3D shapes presented in the different orientations with visible perspective lines.

Greater Depth Identify the shapes with a given number of edges. 3D shapes presented as real life objects.

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

Developing Order the given shapes based on their number of edges. All 3D shapes presented in the same orientation and size with visible perspective lines.

Expected Order the given shapes based on their number of edges. 3D shapes presented in the different orientations with visible perspective lines.

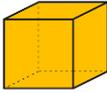
Greater Depth Order the given shapes based on their number of edges. 3D shapes presented as real life objects.

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

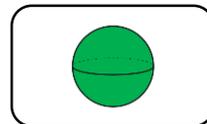
1. Use the cards below to complete the table.

Name	Shape	Edges
cone		
		
sphere		0

cube

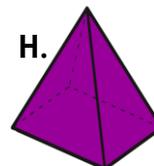
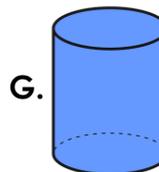
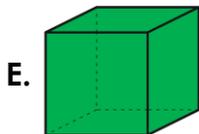
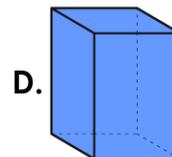
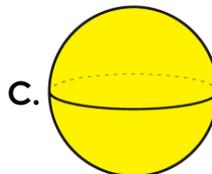
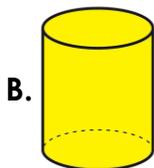
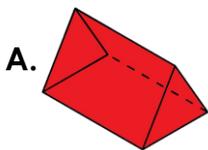
1

12



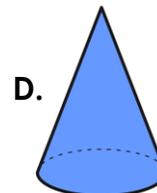
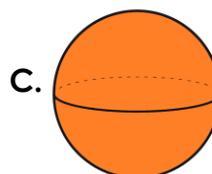
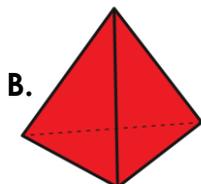
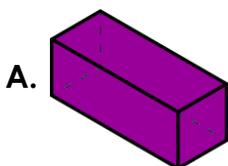
VF
HW/Ext

2. Circle all the shapes below with 2 edges.



VF
HW/Ext

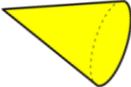
3. Order the shapes based on the number of edges.



RPS
HW/Ext

Count Edges on 3D Shapes

4. Use the cards below to complete the table.

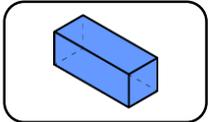
Name	Shape	Edges
		
cuboid		12
		

cone

triangular
prism

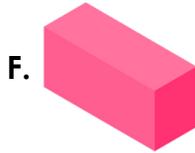
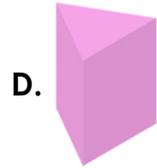
1

9



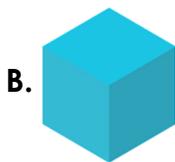
VF
HW/Ext

5. Circle all the shapes below with 9 edges.



VF
HW/Ext

6. Order the shapes based on the number of edges.



RPS
HW/Ext

Count Edges on 3D Shapes

7. Use the cards below to complete the table.

Name	Shape	Edges
		
cylinder		
triangular-based pyramid		

12



cuboid

2

6



VF
HW/Ext

8. Circle all the shapes below with 12 edges.

A.



B.



C.



D.



E.



F.



G.



H.



VF
HW/Ext

9. Order the shapes based on the number of edges.

A.



B.



C.



D.



E.



RPS
HW/Ext

Homework/Extension

Count Edges on 3D Shapes

Developing

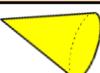
1.

Name	Shape	Edges
cone		1
cube		12
sphere		0

2. B, G
3. Various answers, for example: smallest to largest = C, D, B, A; largest to smallest = A, B, D, C

Expected

4.

Name	Shape	Edges
triangular prism		9
cuboid		12
cone		1

5. D, H
6. Various answers, for example: smallest to largest = C, E, A, B and D; largest to smallest = B and D, A, E, C

Greater Depth

7.

Name	Shape	Edges
cuboid		12
cylinder		2
triangular-based pyramid		6

8. B, D, E, G
9. Various answers, for example: smallest to largest = B, C, E, A and D; largest to smallest = A and D, E, C, B