

Year 2

Edges and Vertices on 3D Shapes

Use the cards below to complete the table.

Name	Shape	Edges
cone		
		
sphere		0

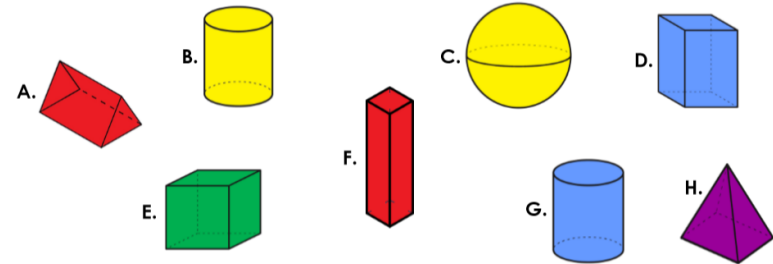
cube

1

12



Choose all the shapes below with 2 edges.



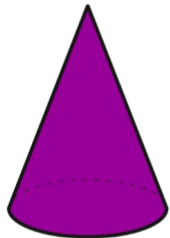
Order the shapes based on the number of edges.



Draw lines to match the shape to the number of edges and the number of vertices.

Shape	Edges	Vertices
	12 2 8	0 5 8
		
		

Choose the two statements that are correct for the following shape.



- A. The 3D shape is not a cone.

B. The 3D shape has 2 vertices.

C. The 3D shape has 1 face.

D. The 3D shape has 1 vertex.

☐
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☐
☐

Hattie is making 3D shapes. She is using lollipop sticks for the edges and playdough balls for the vertices.



I need 4 balls of playdough and 8 lollipop sticks to make a square-based pyramid.



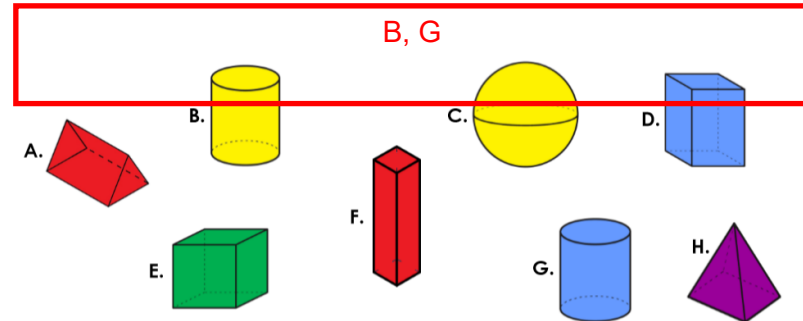
Is Hattie correct? Explain your answer.

Year 2

Edges and Vertices on 3D Shapes

Use the cards below to complete the table.

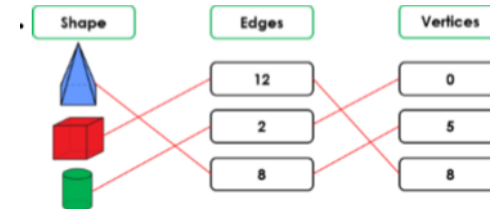
Name	Shape	Edges
cone		1
cube		12
sphere		0



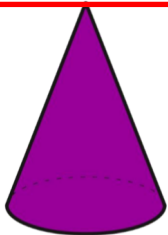
Various answers, for example: smallest to largest = C, D, B, A; largest to smallest = A, B, D, C



Draw lines to match the shape to the number of edges and the number of vertices.



C and D



- A. The 3D shape is not a cone. ☐
- B. The 3D shape has 2 vertices. ☐
- C. The 3D shape has 1 face. ☐
- D. The 3D shape has 1 vertex. ☐

Hattie is incorrect because a square-based pyramid has 5 vertices not 4, so 5 balls of playdough are needed.



I need 4 balls of playdough and 8 lollipop sticks to make a square-based pyramid.



Is Hattie correct? Explain your answer.

Year 2

Edges and Vertices on 3D Shapes

Use the cards below to complete the table.

Name	Shape	Edges
		
cuboid		12
		

cone

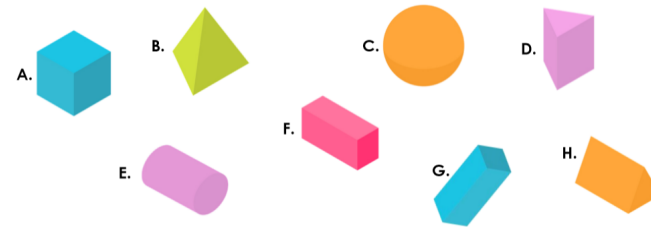
triangular prism

1

9



Choose all the shapes below with 9 edges.



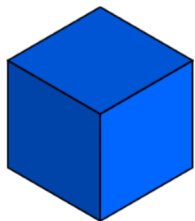
Order the shapes based on the number of edges



Draw lines to match the shape to the number of edges and the number of vertices.

Shape	Edges	Vertices
	9	1
	1	4
	6	6

Choose the two statements that are correct for the following shape.

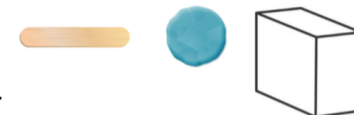


- A. The 3D shape is a square. ☐
- B. The 3D shape has 8 vertices. ☐
- C. The 3D shape has 6 faces. ☐
- D. The 3D shape has 6 vertices. ☐

Azzam is making 3D shapes. He is using lollipop sticks for the edges and playdough balls for the vertices.



I need 12 balls of playdough and 12 lollipop sticks to make a cuboid.



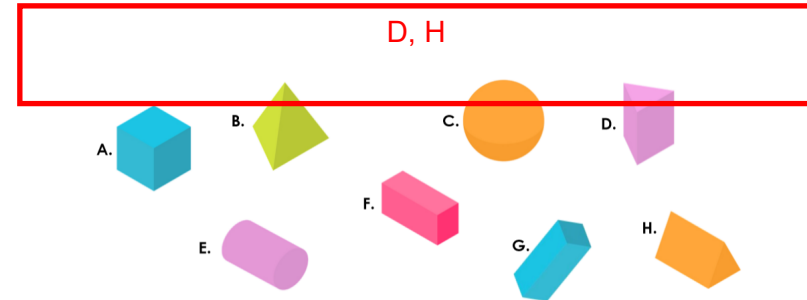
Is Azzam correct? Explain your answer.

Year 2

Edges and Vertices on 3D Shapes

Use the cards below to complete the table.

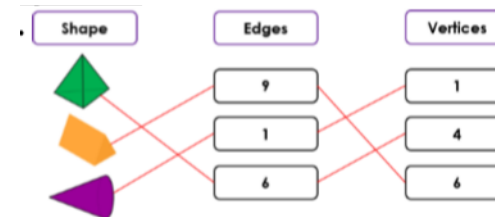
Name	Shape	Edges
triangular prism		9
cuboid		12
cone		1



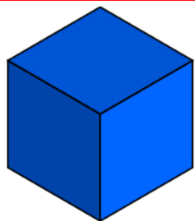
Various answers, for example: smallest to largest = C, E, A, B and D; largest to smallest = B and D, A, E, C



Draw lines to match the shape to the number of edges and the number of vertices.



B and C



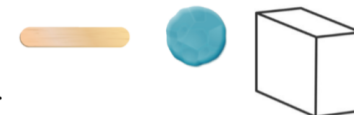
- A. The 3D shape is a square.
- B. The 3D shape has 8 vertices.
- C. The 3D shape has 6 faces.
- D. The 3D shape has 6 vertices.

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☐
☐

Azzam is incorrect because a cuboid has 8 vertices not 12, so 8 balls of playdough are needed.



I need 12 balls of playdough and 12 lollipop sticks to make a cuboid.



Is Azzam correct? Explain your answer.

Year 2

Edges and Vertices on 3D Shapes

Use the cards below to complete the table.

Name	Shape	Edges
		
cylinder		
triangular-based pyramid		

12

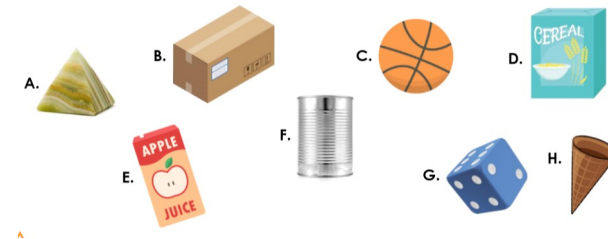


cuboid

2

6

Choose all the shapes below with 12 edges.



Order the shapes based on the number of edges.



Draw lines to match the shape to the number of edges and the number of vertices.

Shape	Edges	Vertices
	2	8
	8	0
	12	5

Choose the two statements that are correct for the following shape.



- A. The 3D shape is a cube.
- B. The 3D shape has 12 vertices.
- C. The 3D shape has 6 faces.
- D. The 3D shape has 8 vertices.

Tallulah is making 3D shapes. She is using lollipop sticks for the edges and playdough balls for the vertices.



I need 9 balls of playdough and 9 lollipop sticks to make a triangular prism.



Is Tallulah correct? Explain your answer.

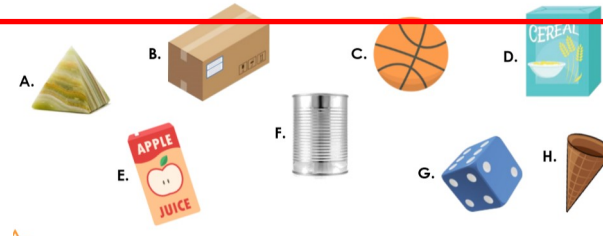
Year 2

Edges and Vertices on 3D Shapes

Use the cards below to complete the table.

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

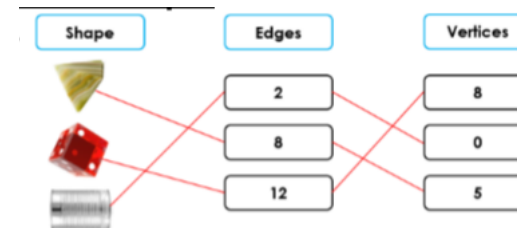
B, D, E, G



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



Draw lines to match the shape to the number of edges and the number of vertices.



C and D



- A. The 3D shape is a cube.
- B. The 3D shape has 12 vertices.
- C. The 3D shape has 6 faces.
- D. The 3D shape has 8 vertices.

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Tallulah is incorrect because a triangular prism has 6 vertices not 9, so 6 balls of playdough are needed.



I need 9 balls of playdough and 9 lollipop sticks to make a triangular prism.



Is Tallulah correct? Explain your answer.