

YEAR 2

MATHS

Home Learning Pack

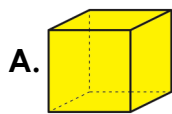
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Count Edges on 3D Shapes

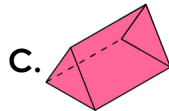
1. Match each 3D shape to the correct number of edges.



6 edges



8 edges



9 edges

12 edges

VF

4. What shape could Millie be describing?

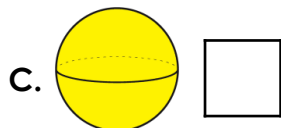
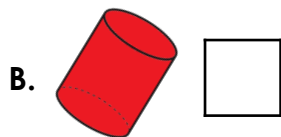
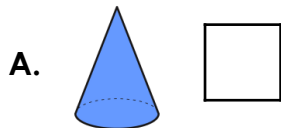


My shape has 12 edges.

Give 2 possible answers.

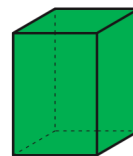
PS

2. Tick the shape that has 2 edges.



VF

5. Liam is describing the shape below.



He says,



The cuboid has 24 edges.

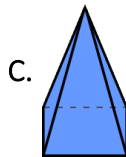
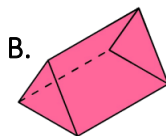
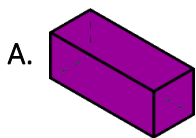
Do you agree? Explain your answer.

R

3. Which shape is William describing?



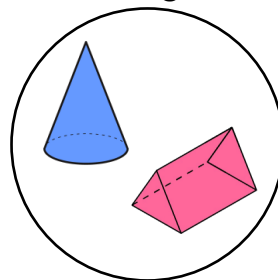
My shape has 8 edges.



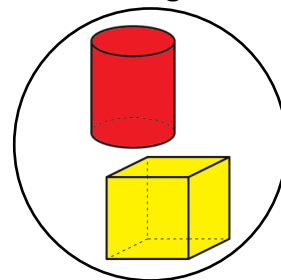
VF

6. Chloe is sorting 3D shapes.

Even number of edges



Odd number of edges

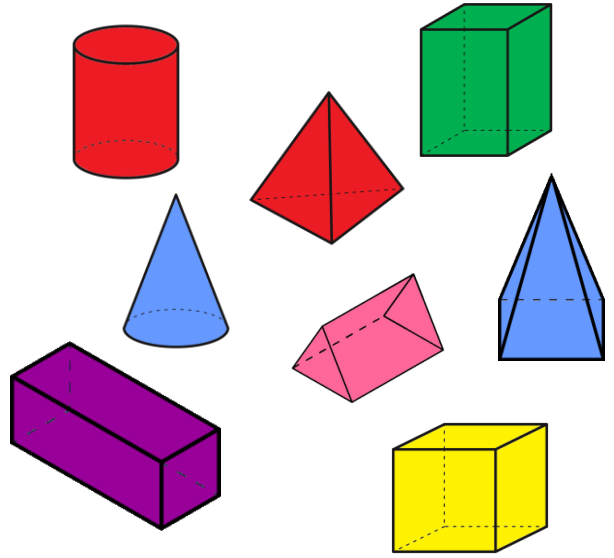
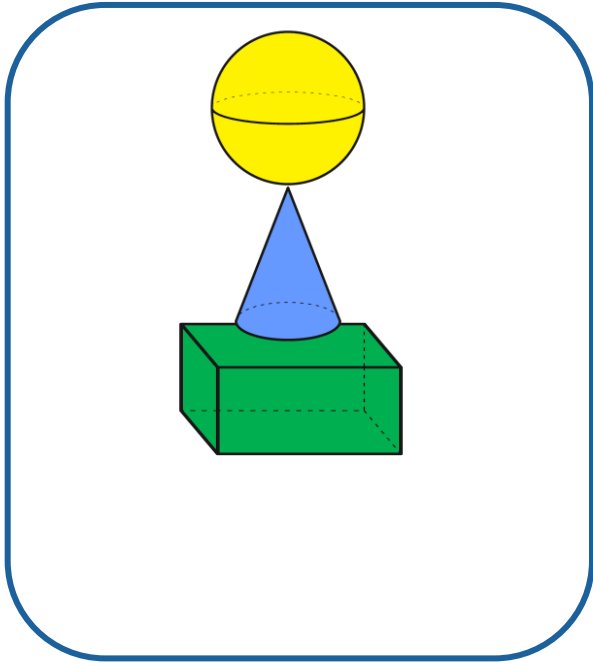


Is she correct? Explain why.

R

Count Edges on 3D Shapes

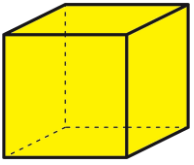
Select shapes below to complete the robot. Your chosen shapes must have between 25 and 30 edges altogether.



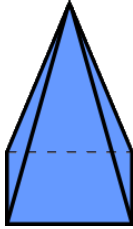
Count Vertices on 3D Shapes

1. Which shape has 5 vertices?

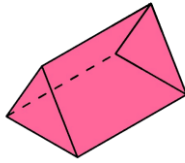
A.



B.



C.



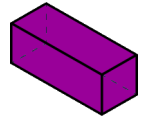
VF

4. Which two shapes have a total of 12 vertices?

A.



D.



B.



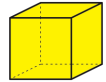
E.



C.



F.

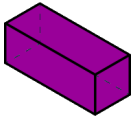


Find 2 possible answers.

PS

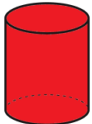
2. Match the shape to the correct number of vertices.

A.



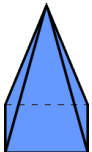
0

B.



8

C.



6

VF

5. Ben is counting vertices on 3D shapes.



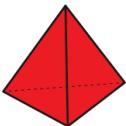
The shape has 8 vertices. It must be a cuboid.

Is Ben correct? Explain why.

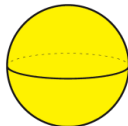
R

3. Circle the shapes that have less than 4 vertices.

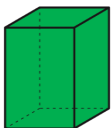
A.



B.



C.



D.



VF

6. Use the clues to find the missing shape.

I am a 3D shape.

I have more than 3 but fewer than 7 vertices.

What am I?

Find all the possible shapes.

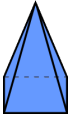






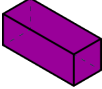










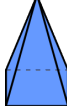





PS

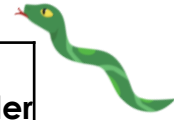
Count Vertices on 3D Shapes

Barti has dropped some shapes in the jungle. He needs to find a path through the jungle that equals 38 vertices.



Start →

	cylinder	cube			cylinder
cube			cuboid		
	cuboid			cone	
cuboid				cylinder	
		cone			
cone			cylinder		



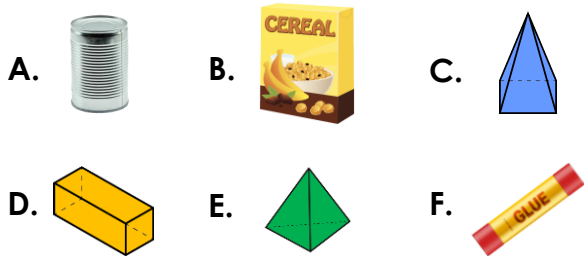
→ Finish



Sort 3D Shapes

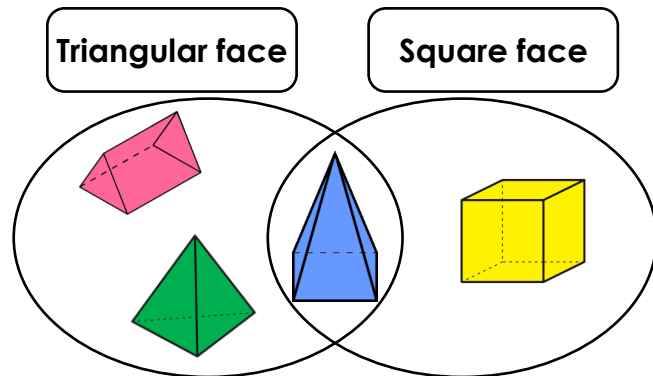
1. Sort the shapes into the table below

Cylinders	Cuboids	Pyramids



VF

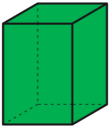



4. Lydia has sorted these 3D shapes.



Is she correct? Explain why.

R

2. The shapes below have been sorted. Use the word cards to label each column.

A.	B.
 	 

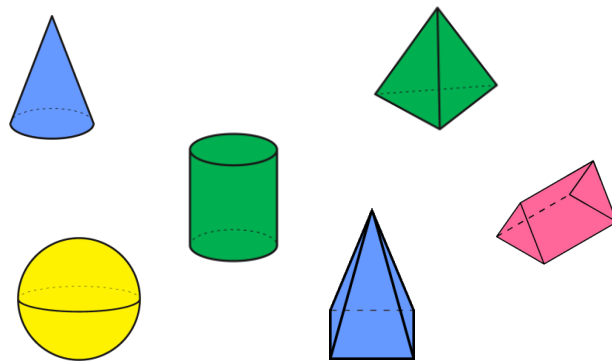
More than 5 faces

5 faces

Fewer than 5 faces

VF

5. Sort these 3D shapes into 2 groups?



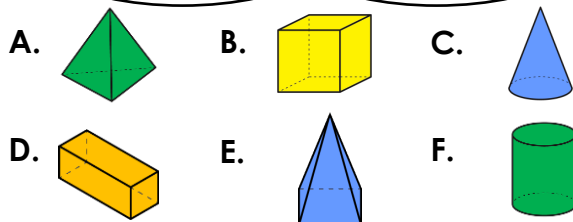
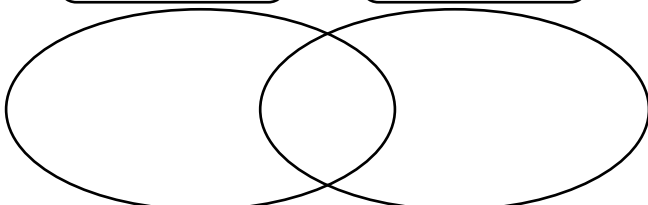
Can you find 2 possible answers?

PS

3. Sort these 3D shapes into the Venn diagram.

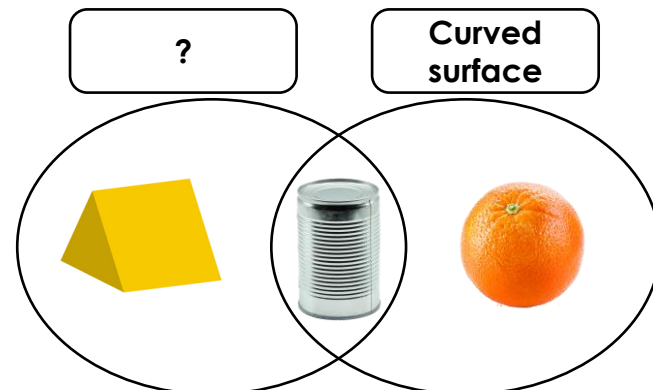
Even number of edges

Odd number of vertices



VF

6. Thomas is sorting some 3D shapes.



What could the missing label be?

PS

Sort 3D Shapes

During a recent trip to planet Earth, some aliens have collected a group of objects and now they want to deliver them to the correct planet.



Zap



Zin



Zom



Zot



Zok



Instructions

Zap – Even number of edges

Zom – Fewer than 5 edges

Zok – 2 flat faces

Zin – Odd number of edges

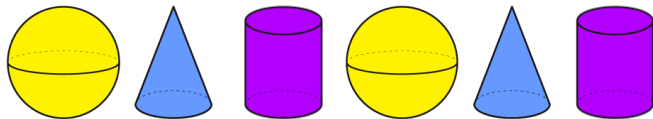
Zot – More than 5 edges



Using the instructions above, explore the possible planets each item could be delivered to.

Make Patterns with 3D Shapes

1. Circle the shape that will come next in the pattern.



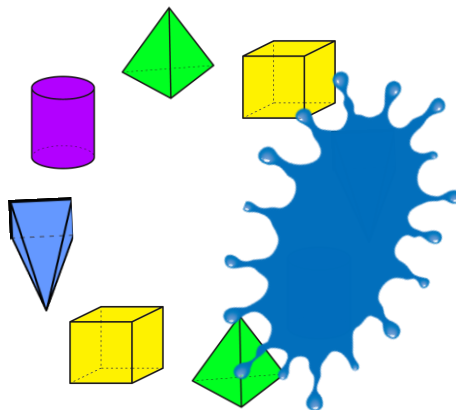
sphere

cone

cylinder

VF

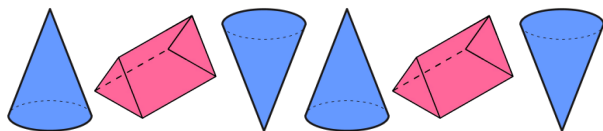
4. Which shapes are hidden under the splat?



Explain how you know.

R

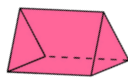
2. Which shape will be 10th in the pattern?



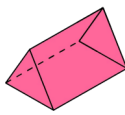
A.



B.



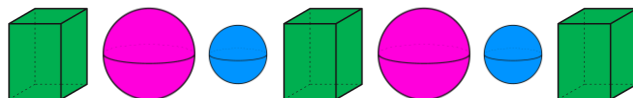
C.



D.

VF

5. The children are talking about the pattern below.



Lucy

The 11th shape will be a cuboid.



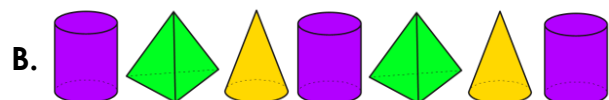
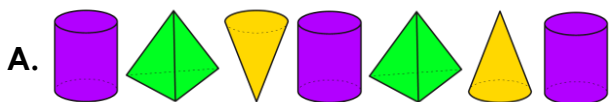
Alex

The 11th shape will be a large sphere.

Who is correct? Explain why.

R

3. Which pattern is correct?



VF

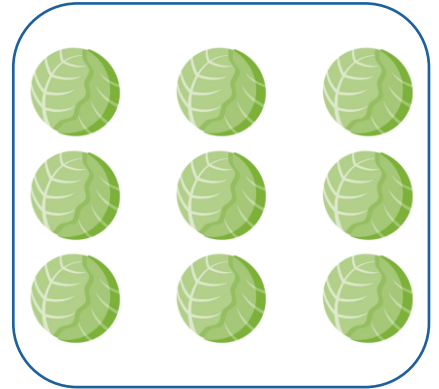
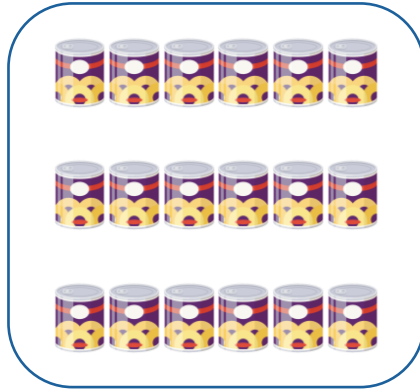
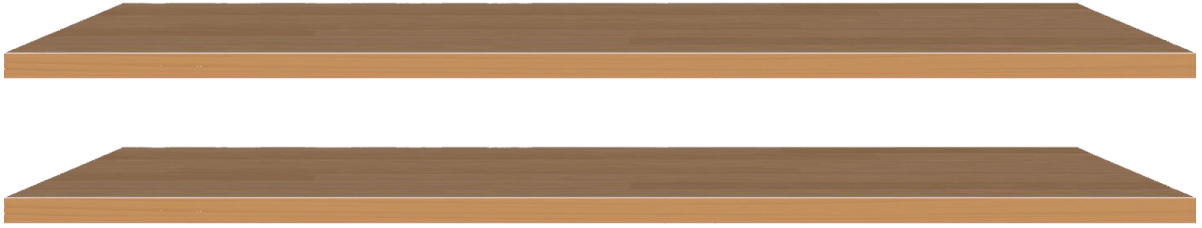
6. Using the clues, show two different patterns that are both 10 shapes long.

- The third shape is a shape with no vertices.
- The first shape is a cube.
- The second shape has 9 edges.

PS

Make Patterns with 3D Shapes

Miss Burke the shopkeeper wants to create an eye-catching display for her customers.



Using the cereal boxes, tins and cabbages, explore the patterns that Miss Burke can make on her shelves. You do not need to use all the items in your patterns.