Maths Pack

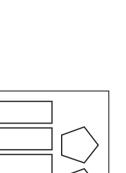
W/B1.2.21

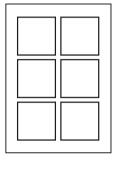
MONDAY

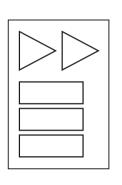
A face is a flat surface on a 3D shape. Some 3D shapes are curved and, because a face has to be flat, these are called curved surfaces. There are three 3D shapes that have curved surfaces. Use this information to answer the questions below.

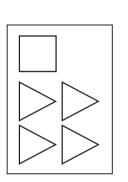
Match the shapes to the faces.











2 Complete the table.

<u> </u>		
		Shape
		Name
		Number of faces

	<u>•</u>	
1		

My shape has one curved surface.

What shape is Jack describing? ____



- Match the description to the shape.
- 1 circular face and
- 1 curved surface



- 2 circular faces and
- 1 curved surface





4 triangular faces



only 3D shape with A cube is the 6 faces.

Alex has made a mistake.

Name another 3D shape that has 6 faces.





shapes have 10 circular faces. In total, my

What shapes has Dexter got?

)exter	
has	
got	
5	

some cubes. Dora wants to put a sticker on each face of

She has 60 stickers.

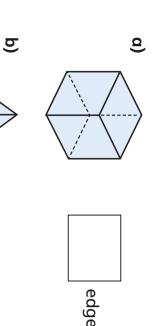
How many cubes can she cover in stickers?

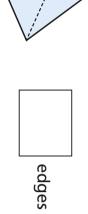
Dora can cover cubes in stickers.

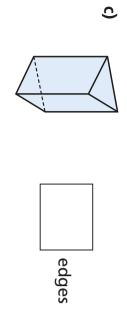
TUESDAY

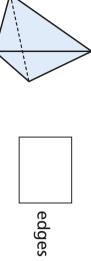
and run your fingers along the edges. Then answer the questions below. edges on pictures of 3D shapes. Find a box (tissue box, cereal box etc) An edge is a line where 2 faces meet. It can be tricky to find all the

) How many edges does each shape have?









<u>م</u>

2 Complete the table.

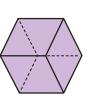
		Shape
		Name
		Number Number of edges of faces
		Number of faces

(
	more	3D s	
	edge :	3D shapes	
	more edges than face	alwa	
	n face	always ha	

Why? Do you agree?













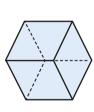
- Shape A has an odd number of edges.
- Shape B has the most edges.
- Shape C has the same number of edges as a cube has faces.
- The edges of shape D are all the same length.
- (J) Write the name of two 3D shapes that have the same number of edges.

and





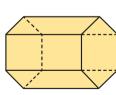
edges, so a square-based pyramid must have 5 faces and 10 edges. The number of edges is always double the number of faces. A cube has 6 faces and 12





Why? Do you agree with Teddy?





prism has? How many edges do you think a pentagonal



Why do you think this?

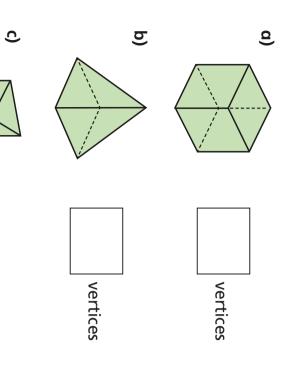




WEDNESDAY

(=). Remember that the crocodile always eats the biggest number (34 > 12). answers. Question 5 uses the signs for greater than (>), less than (<) and equal to these are found where edges meet. Read the questions below and record your "Vertices" is the plural of one vertex. Another term for vertices is corners and

How many vertices does each shape have?



2 Complete the table.

		Shape
		Name
		Number of vertices

Write the name of a different 3D shape with no vertices.

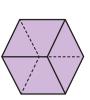
vertices

vertices

<u>م</u>

Write the shapes in order of the number of vertices.

Start with the shape that has the fewest vertices.



Þ

fewest



Φ





4 Complete the sentences.



fewer

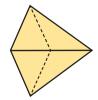
- **a)** A cube has ______ vertices than a sphere.
- **b)** A sphere has ______ vertices than a cone.
- c) A triangular prism has _______ vertices than a cuboid.

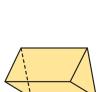
Match each shape to the correct label.

< 5 vertices



= 5 vertices





> 5 vertices



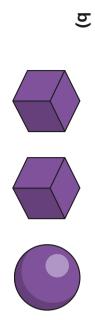
THURSDAY

the 3D shapes into different groups Use what you have learnt about faces, edges and vertices to sort

and complete the sentences. Circle the odd one out in each group

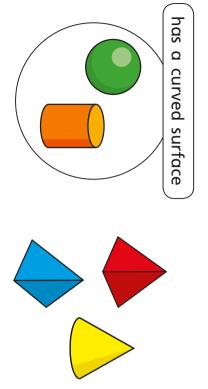


The odd one out is a

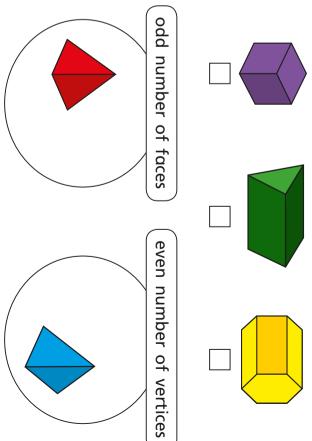


The odd one out is a

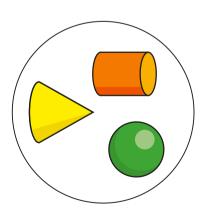
Tick the shape that could go in the group.

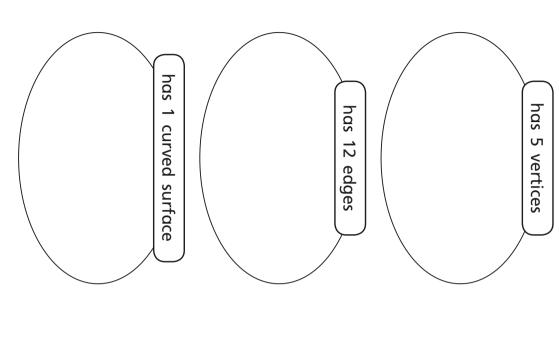


Tick the shape that could go in both groups.



How have the shapes been grouped?

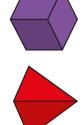




each group? Can you think of any other shapes to go in



6) a) Draw lines to sort the shapes into two groups.



Group A

Group B





























Group A:

Group B:

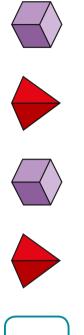
one thing that is different. Write a sentence using the conjunction but. Challenge: choose two 3D shapes and write one thing that is similar about them and

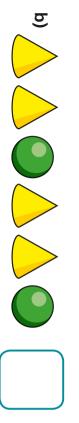


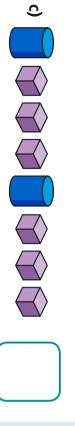
FRIDAY

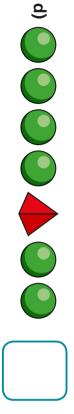
Use what you have learnt about 3D shapes this week to make patterns. Remember to read the questions carefully to find out what you have to do.

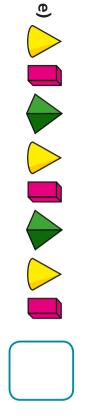
Draw the next shape in each pattern.







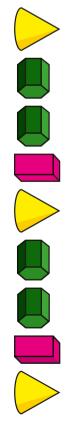




What is the name of the 3rd shape in the pattern?



3 Here is a pattern made with 3D shapes.

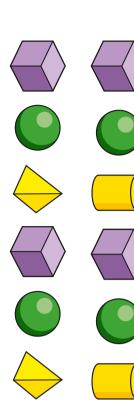


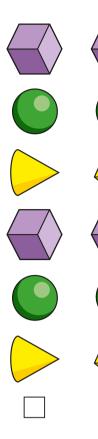
a) Write the name of the 4th shape in the pattern.

b) What would the 13th shape in the pattern be?

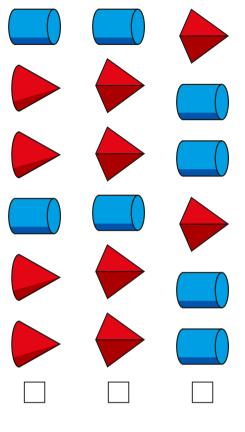




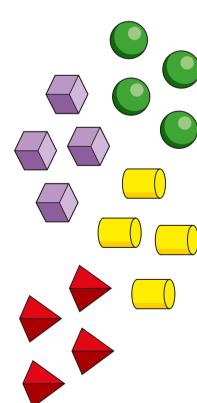




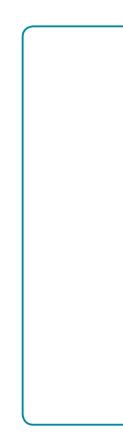
b) cylinder, pyramid, pyramid, cylinder, pyramid, pyramid



Eva is making a pattern using these shapes.



a) What pattern could Eva make?



b) Can you arrange Eva's shapes to make a symmetrical pattern?



c) Compare answers with a partner.





