YEAR 2

MATHS

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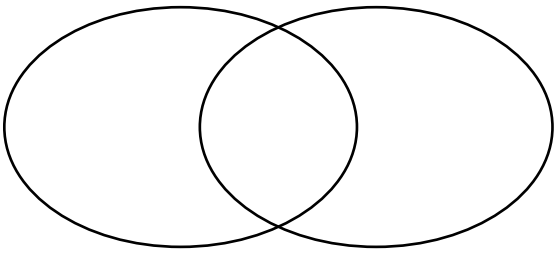
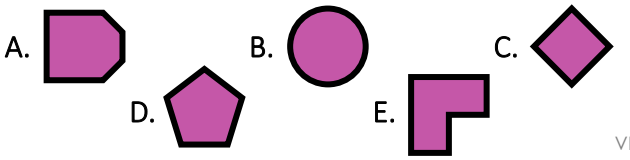
Sort 2D Shapes

1. Write the letters of each shape in the correct section of the Venn diagram.

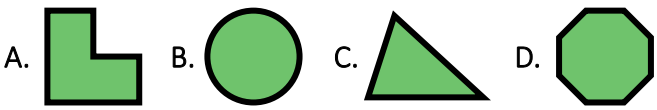




VF

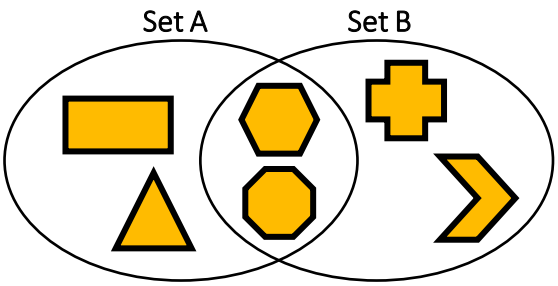
2. Write the letters of the shapes in the correct section of the table.

More than 4 sides	3 vertices or fewer



VF

3. Tick the correct statements.



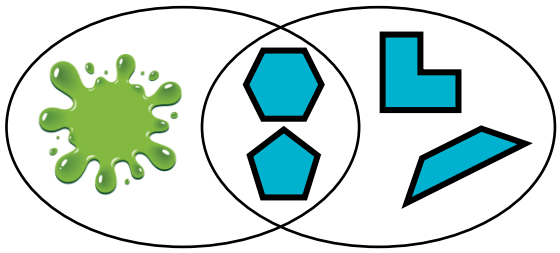
A. Set A have vertical lines of symmetry. ☐

B. Set B have 5 or more vertices. ☐

C. A square can be added to set B. ☐

VF

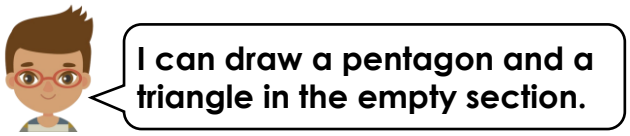
4. Marie has sorted some shapes. One shape is hidden by a splat.



Draw 2 possible shapes that could be hidden.

PS

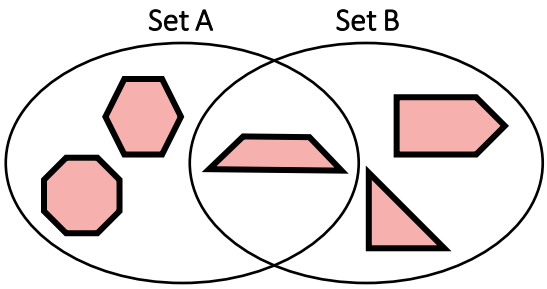
5. Is Jack correct? Explain your answer.



More than 5 sides	4 vertices or fewer

R

6. What could the missing labels on the Venn diagram be?

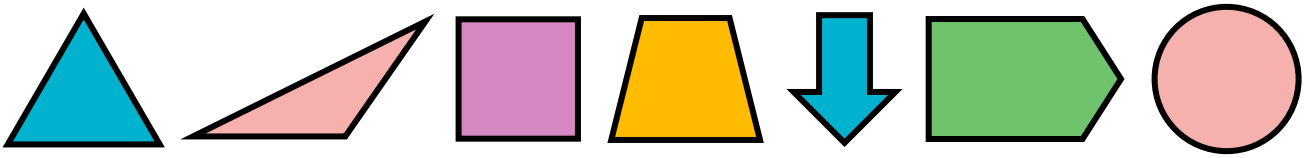


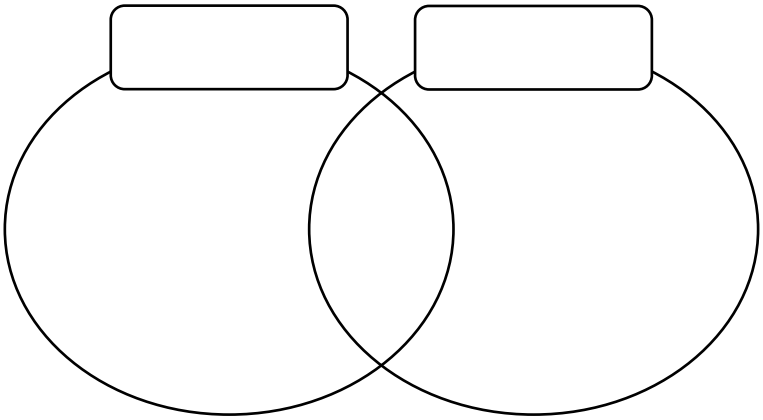
Explain your answer.

R

Sort 2D Shapes

Sort the 2D shapes using the Venn diagram below.

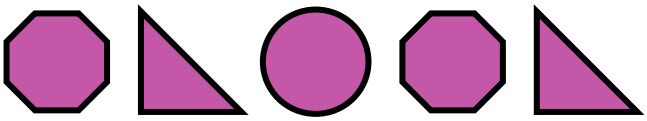


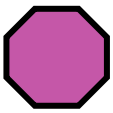


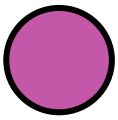
Investigate how many different ways the shapes can be sorted.

Make Patterns with 2D Shapes

1. Which shape will come next in the pattern?



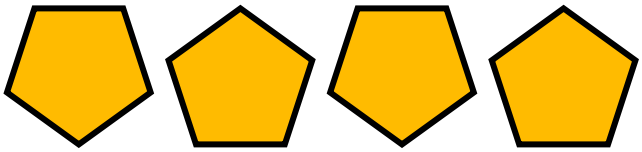
A. 

B. 

C. 

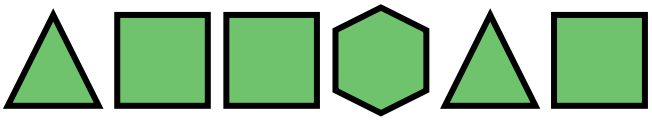
VF

2. Draw the shape that will come next.



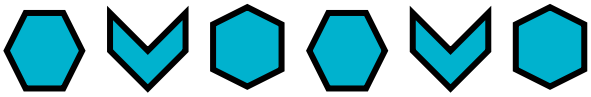
VF

3. Draw the shape that will be the twelfth in the pattern.



VF

4. Lucas is making a pattern with 2D shapes



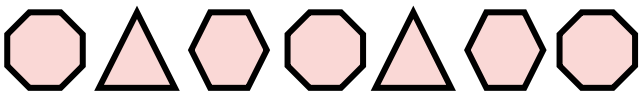
He says,

My pattern is made with hexagons.

Is he correct? Convince me.

R

5. Millie and Hayden are talking about the pattern below.



Millie

I think the 11th shape will be a triangle.

I think the 11th shape will be an octagon.

Hayden

Who is correct? Prove it.

PS

6. Lucy and Thomas use the clues below to draw a pattern made up of 9 shapes.

The third shape is a purple rectangle.

The first shape is a blue triangle.

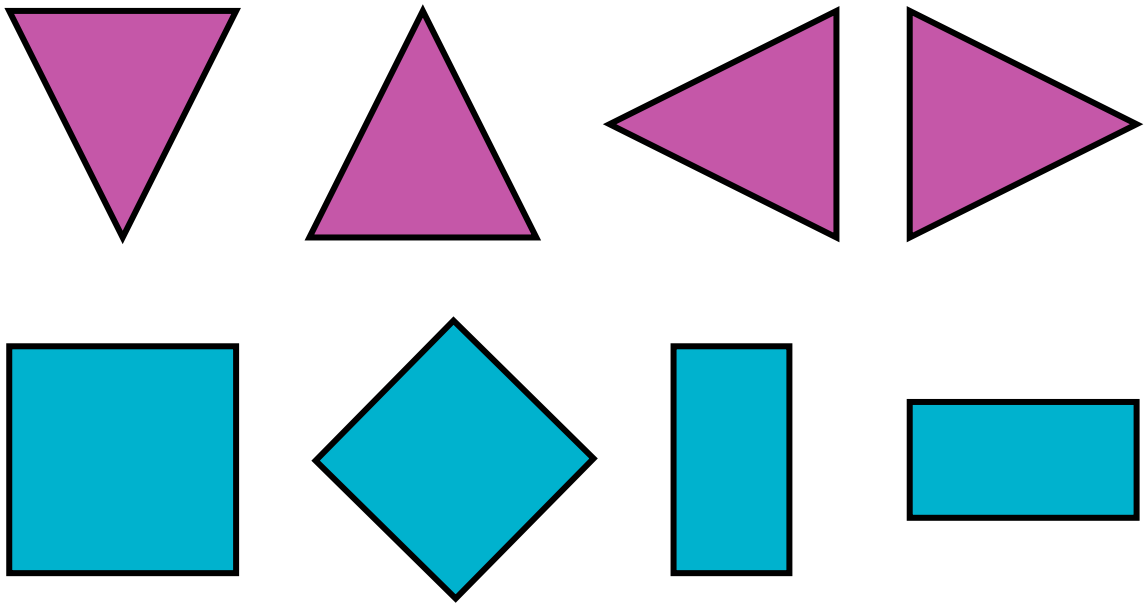
The second shape is a green square.

How could their patterns look different?

PS

Make Patterns with 2D Shapes

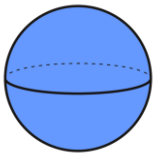
Use the shapes below to create a pattern.

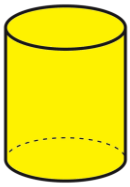


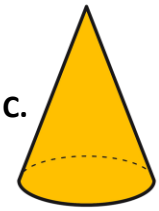
Explore how many different patterns you can create.

Count Faces on 3D Shapes

1. Which of the shapes below has 1 flat face and 1 curved surface?

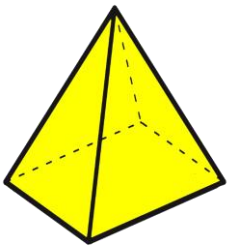
A. 

B. 

C. 

VF

2. Complete the sentences below.

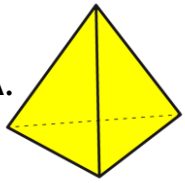


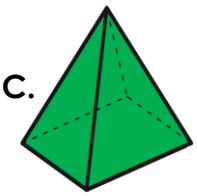
This shape is a _____.

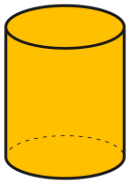
It has ____ flat faces and ____ curved surfaces.

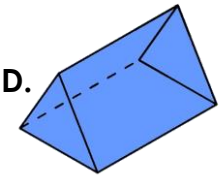
VF

3. Circle the shape with 4 faces.

A. 

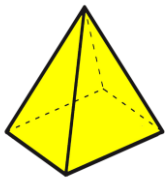
C. 

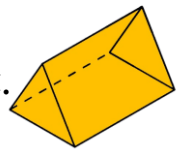
B. 

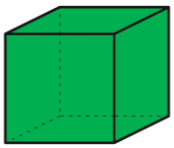
D. 

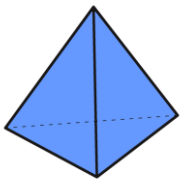
VF

4. Which of the shapes below has the greatest number of faces?

A. 

C. 

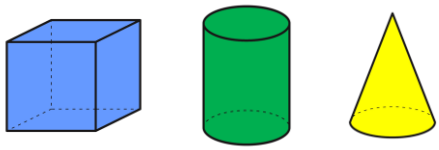
B. 

D. 

Explain your answer.

R

5. Fill in the table to match the shapes.



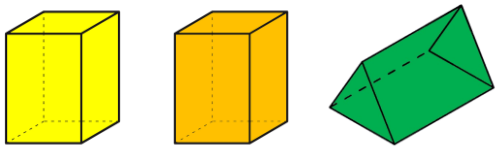
Name	Number of curved surfaces	Number of flat faces
	0	
		2

PS

6. Luna is counting faces on 3D shapes.

She says,

Two cuboids and a triangular prism have a total of 17 flat faces.



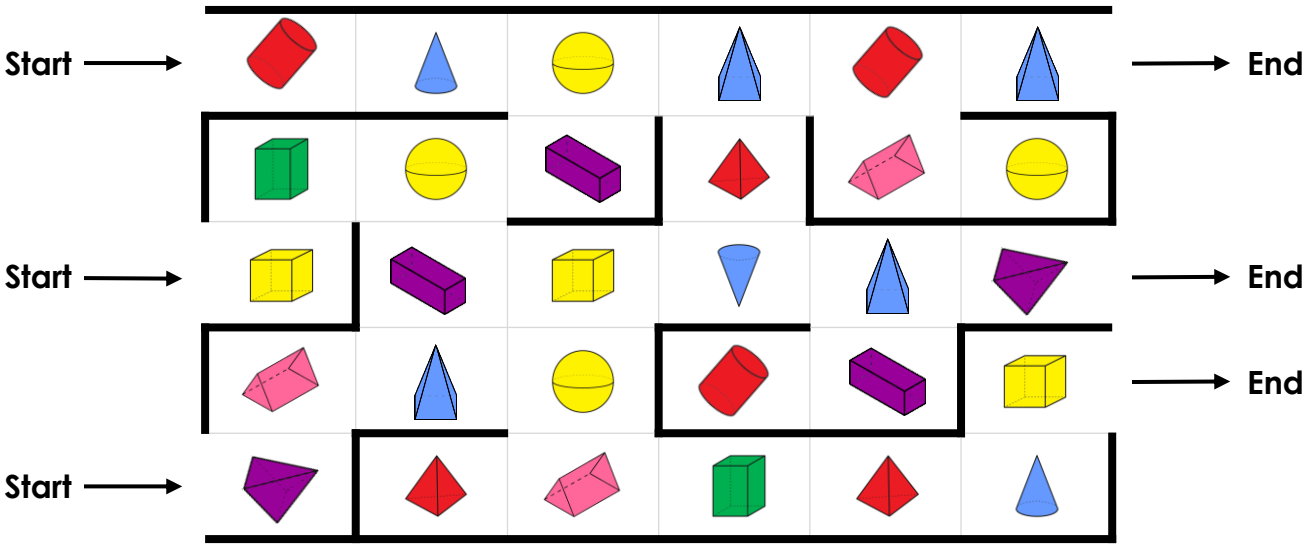
Can you find other combinations of 3D shapes with a total of 17 flat faces?

PS

Count Faces on 3D Shapes

Matthew and Amelia are playing a game. They have to get across the shape maze.

Rules
- **1 point for every flat face and 2 points for every curved surface.**
- **Add up the points you get for each shape.**



Explore the different routes they could take and the points they could score. Which route would give the highest possible score?