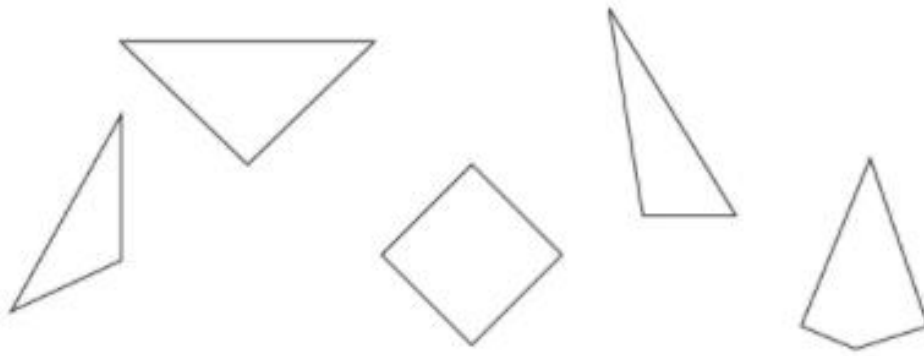
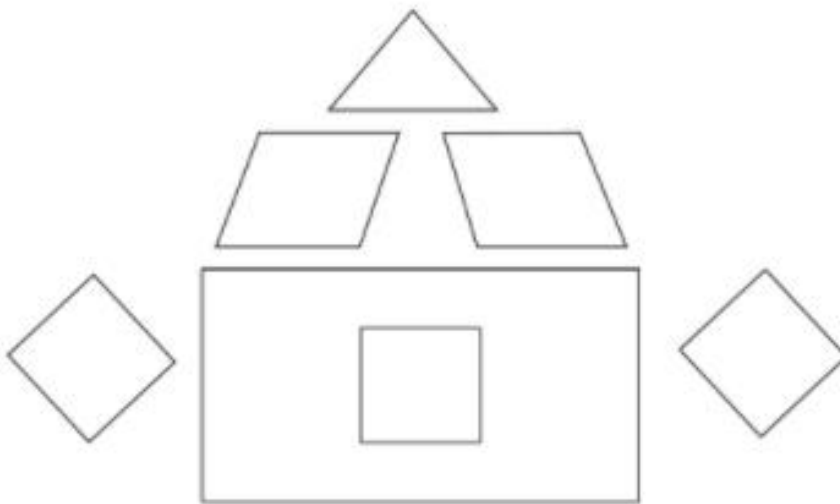


Recognising 2D and 3D shapes

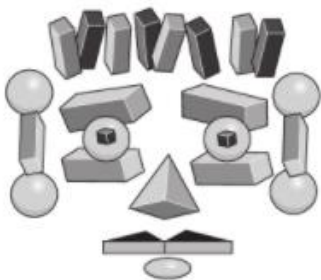
1 a) Colour in all the triangles.



b) Colour in all the squares.



2 How many cuboids, pyramids and spheres are there in this picture?

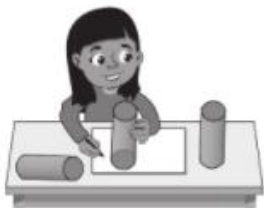


There are cuboids.

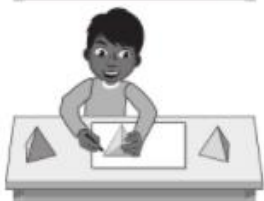
There are pyramids.

There are spheres.

3 Sara and Ibrahim are drawing around 3D shapes. Write the name of the 2D shape each child will draw.



Sara will draw a _____.



Ibrahim will draw a _____.

4 Children made pictures by sticking shapes on paper.

Match each child to their picture.

I used an odd number of rectangles.



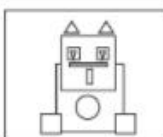
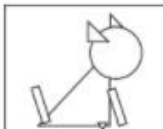
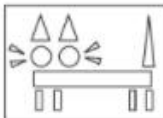
I used an even number of triangles.



I used no circles.



Mine has more than one square.



Reflect

Name three 2D shapes and three 3D shapes. Point to them in the classroom or on the page.

CHALLENGE

Drawing 2D shapes

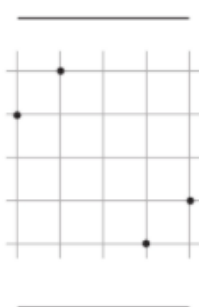
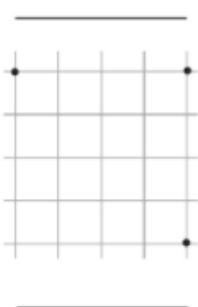
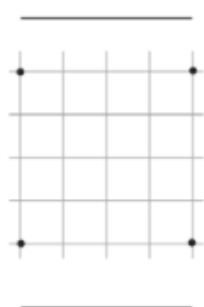
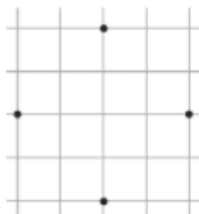
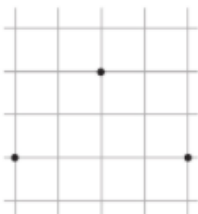
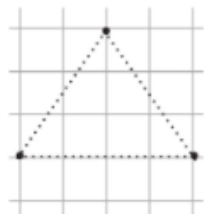
- 1 These are the dots for the corners of polygons.

Complete each polygon.

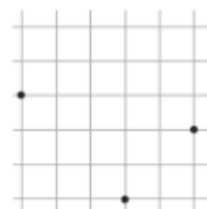
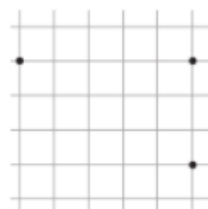
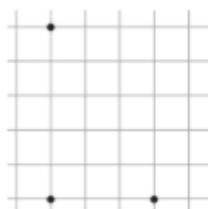
One has been done for you.

Write the name of each shape.

Use a ruler to join the dots.

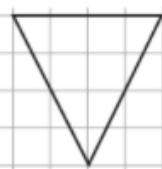
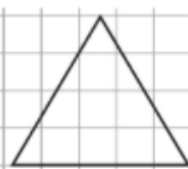
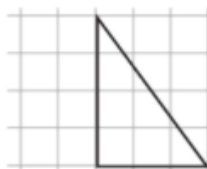


- 2 Draw one more dot for each rectangle, then complete each shape.



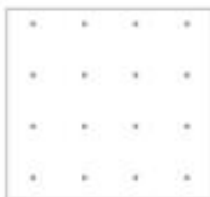
- 3 Copy the triangles from the square grid to the plain paper.

One has been started for you.



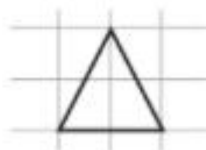
- 4 How many different squares can you draw on these grids?

CHALLENGE



Reflect

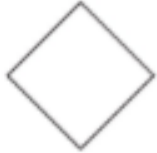
Give three instructions for how to draw this shape accurately.



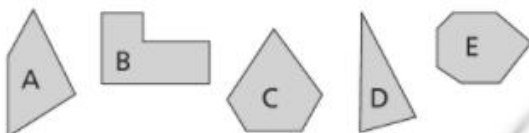
- First, _____.
- Then, _____.
- Finally, _____.
- _____.

Counting sides on 2D shapes

1 Complete the table.

Shape	Name	Number of sides
	tri_ng_e	
	pent_g_n	
	____r e	
	r_c_a_g_e	4
	hex_g_n	

2 Match the shape to the sentence.



There is one sentence for each shape.

Shape D has sides.

Shape A has sides.

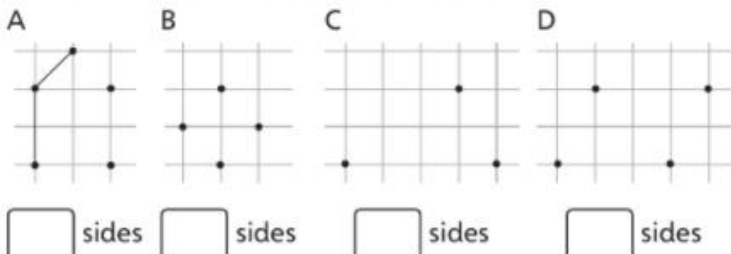
Shape ____ has more than six sides.

Shape ____ has five sides.

Shape ____ has an even number of sides.

3 Complete the drawings.

How many sides does each shape have?



sides

sides

sides

sides

4 a) Rob makes five triangles.

To make five triangles, he needs sticks.

Counting vertices on 2D shapes

1 Match the shapes to the number of vertices.



3 vertices

4 vertices

5 vertices



2 Complete the table.

Shape	Number of vertices

3 Complete the sentences with the words below.

Use each word once.

square pentagon hexagon triangle rectangle

A _____ has five vertices and five sides.

A shape with four vertices could be a _____
or a _____.

A _____ has fewer vertices than a square.

Every shape with six vertices is called a _____.

4



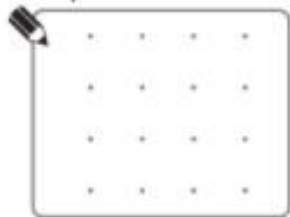
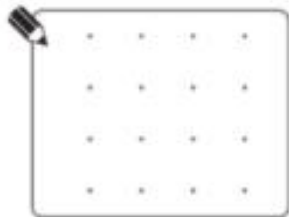
This shape has four
vertices because it
touches four dots.



Explain Toby's mistake.

5 Draw two different shapes with four vertices.

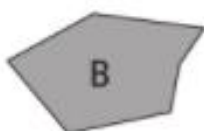
CHALLENGE



Draw two different shapes with five vertices.



Reflect



It's easy to count the
vertices on shape A.
It's harder to count the
vertices on shape B.



Explain what is the same
and what is different.

Think about where
the vertices are.



• _____

• _____

• _____