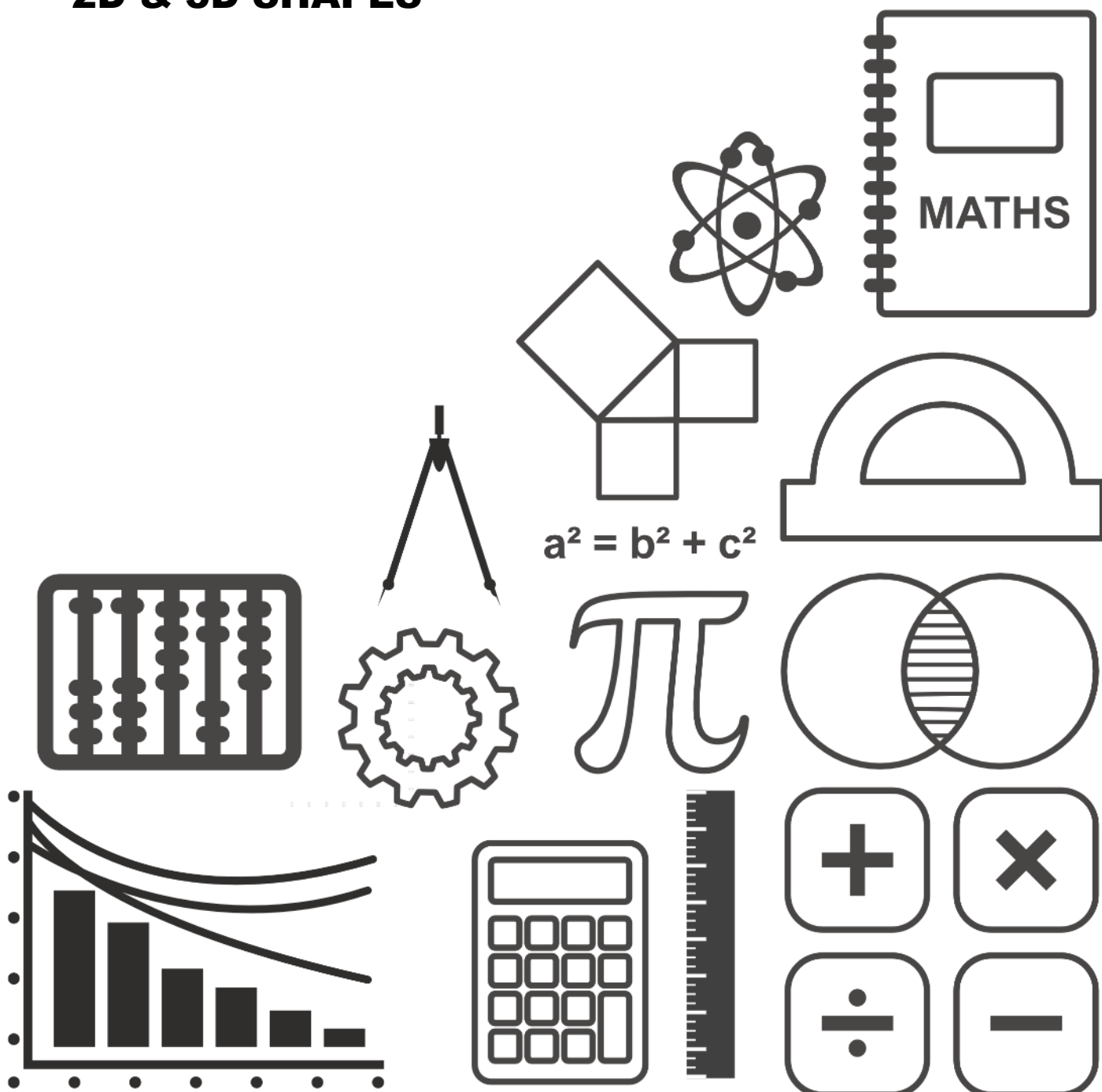


# MATHSDIY

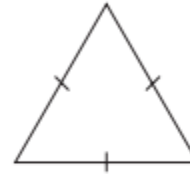
## GCSE TOPIC BOOKLET 2D & 3D SHAPES



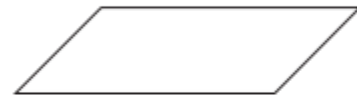
1. Draw a line connecting each of the following words to the correct shape.  
One has been done for you.

[4]

Cuboid



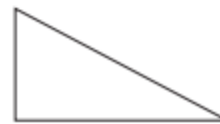
Cylinder



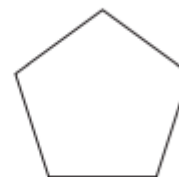
Trapezium



Pentagon



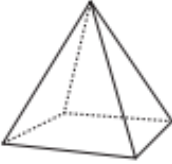


Equilateral triangle



2. Write down the special name of each of the following figures.

[3]

	.....
	.....
	.....

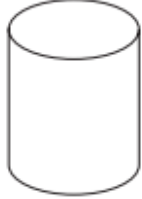
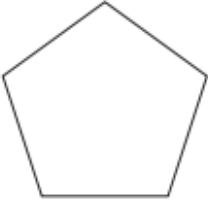
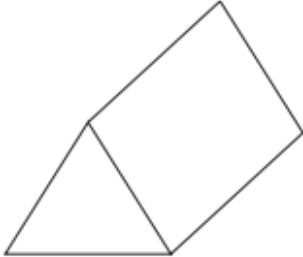
3. Tim has a cube, which he has labelled P, a square-based pyramid labelled Q, a triangular prism labelled R and a tetrahedron labelled S. Complete the following table. One has been done for you.

Properties of the shape	Label on shape
All faces are square.	P
2 triangular faces and 3 rectangular faces.	
All its faces are triangles.	
It has exactly 5 vertices.	

(3)

4. Write down the special name of each of the following figures.

[3]

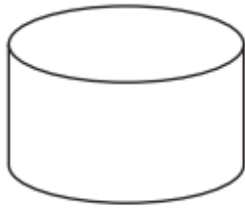
	<p>.....</p>
	<p>.....</p>
	<p>.....</p>

5. A cone is labelled A. A cuboid is labelled B. A hexagon is labelled C and a tetrahedron is labelled D. Complete the following table, one has been done for you.

Properties of the shape	Label on shape
It has one circular face.	A
It is not a 3D shape.	
All its faces are triangles.	
All its faces are rectangles.	

(3)

6. Write down the special name of the shape shown in each of the following diagrams. [2]



.....



.....

7. Think of a cuboid.

- a) How many faces has it got? .....
- b) How many vertices has it got? .....
- c) How many edges has it got? .....
- d) What is the shape of each of its faces? .....

(4)

8. A pentagon is labelled A. A square based pyramid is labelled B. A cube is labelled C and a cylinder is labelled D. Complete the following table.

Properties of the shape	Label on shape
5 faces, 4 of which are triangular	
It is not a 3D shape.	
It has two circular faces.	
All its faces are squares.	

(4)

9.

Draw a line connecting **each** of the following words to the correct shape.  
One has been done for you.

[4]

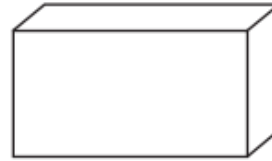
Cuboid



Cylinder



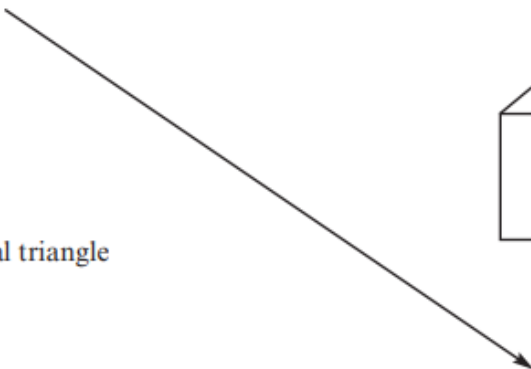
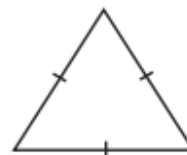
Equilateral triangle



Hexagon


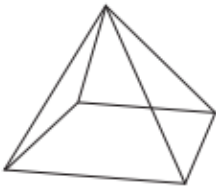
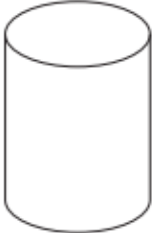
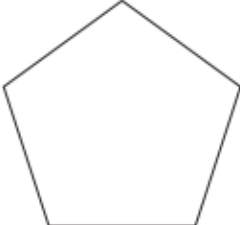


Trapezium



10. Write down the names of each of the following figures.

[4]

	<p>.....</p>
	<p>.....</p>
	<p>.....</p>
	<p>.....</p>

11. In the space below, draw a sketch of a cylinder.

[1]

12. (a) Complete the following table by placing a tick (✓) in any box where the given statement is true.

Statement	Square	Parallelogram	Trapezium
The diagonals are equal in length			
Opposite angles are equal			
Only one pair of opposite sides are parallel			
The diagonals are lines of symmetry			

[3]

(b) Explain why three lines of lengths 3 cm, 5 cm and 10 cm cannot be used to form a triangle.

.....

.....

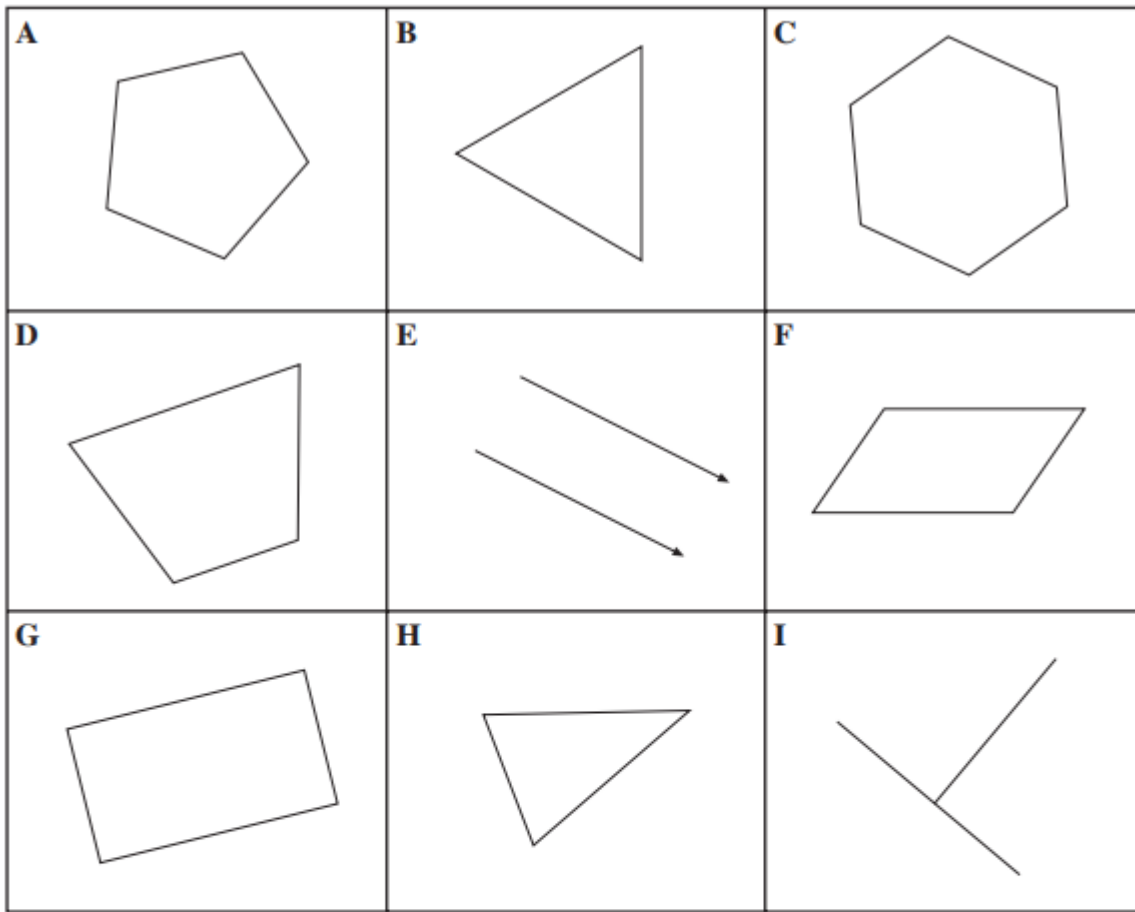
.....

.....

[1]



13.



Complete the following table.

Diagram	Letter
two perpendicular lines	I
an equilateral triangle	
a parallelogram	
a hexagon	
a rectangle	

[4]