



## Shape Answers Day 1 Sorting shapes A Sphere B Cone C Hemisphere D Cylinder E Tetrahedron / Triangle-based pyramid

- F Square-based pyramid
- G Triangular prism
- H Cuboid
- I Cube
- J Pentagon-based pyramid
- K Pentagonal prism
- L Hexagon-based pyramid
- M Hexagonal prism

## Challenge

There is no house for a cuboid shape with 2 pairs of square faces because if a cuboid shape had 2 pairs of square faces the third pair of faces would also have to be square. It would then be sorted into house I.

## Day 2 Sorting shapes

- N Sphere
- O Cone
- P Hemisphere
- Q Cylinder
- R Triangle-based pyramid
- S Square-based pyramid
- T Triangular prism
- U Pentagon-based pyramid
- V Hexagon-based pyramid
- W Cuboid
- X Cube
- Y Pentagonal prism
- Z Hexagonal prism

## Challenge

The map should reflect the shapes having the following number of vertices:

Shape	Number of vertices	Shape	Number of vertices
Sphere	0	Cuboid	8
Triangular prism	6	Cylinder	0
Cone	1	Pentagon-based pyramid	6
Triangle-based pyramid	4	Pentagonal prism	10
Hemisphere	0	Hexagonal prism	12
Cube	8	Hexagon-based pyramid	7
Square-based pyramid	5		

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