

GEOMETRIC THINKING – SET 4 – PART 1

A Can discuss the attributes of a shape including.

Plane (flat 2d) vs Solid (3d) Shapes

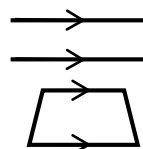


2d Shapes

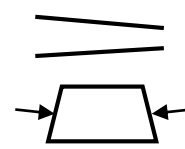


3d Shapes

Parallel Vs Non Parallel lines



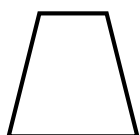
Parallel Lines



Non Parallel

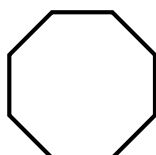
B Can name and discuss the attributes for 2D shapes including:

Trapezium



4 sided shape where 2 sides are parallel.

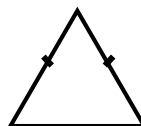
Octagon



8 sided shape.

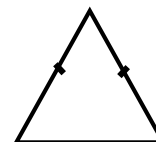
Types of triangles

Equilateral Triangle



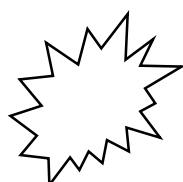
All 3 sides and angles are the same.

Isosceles Triangle

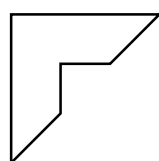


At least 2 equal sides, and angles that are the same.

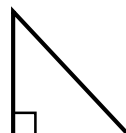
Polygon



A many sided 2D shape.

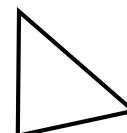


Right Angle Triangle



Contains a right angle.

Scalene Triangle



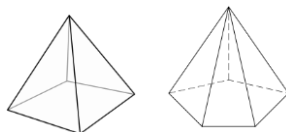
No sides or angles are the same.

C Can name and discuss the attributes for 3D shapes including:



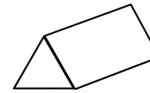
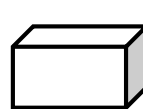
Sphere

3d and perfectly round like a ball.



Pyramid

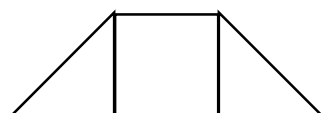
All sides are triangles that meet at the top. Base is a polygon.



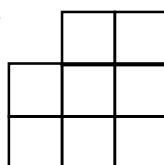
Prisms

Shapes where the two ends are parallel and look the same. All cross sections of this shape will also look the same.

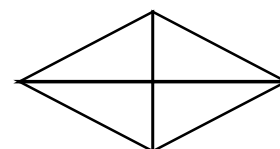
D Can find shapes within shape:



The trapezium is the same as a square and two triangles.



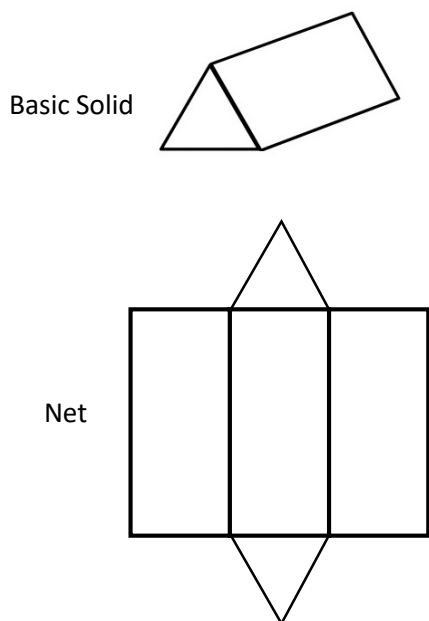
This shape is the same as 8 squares.



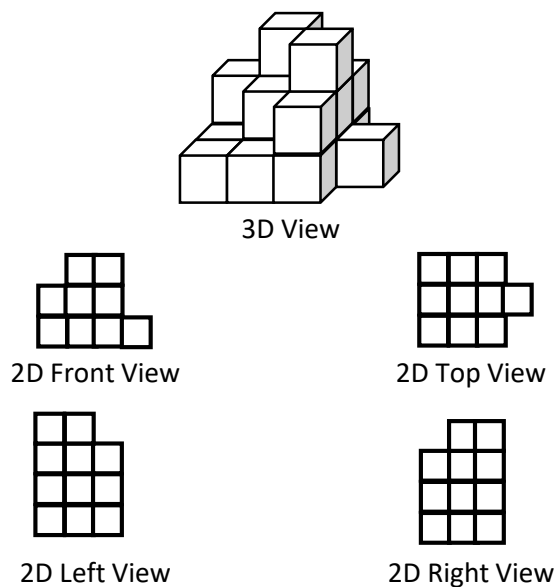
This diamond is the made up from 4 equal sized triangles.

GEOMETRIC THINKING — SET 4 — PART 2

E Can draw nets of basic solids.

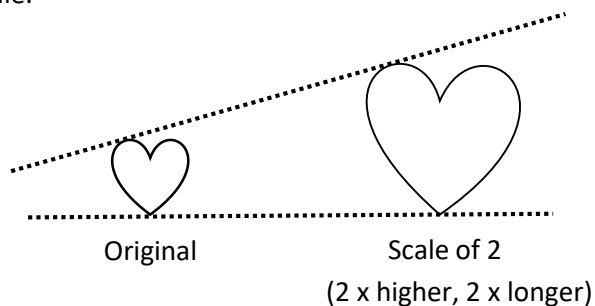


F Can create 2d drawings from 3d drawings and models, noticing details like how many blocks. (Using less than 25 blocks)

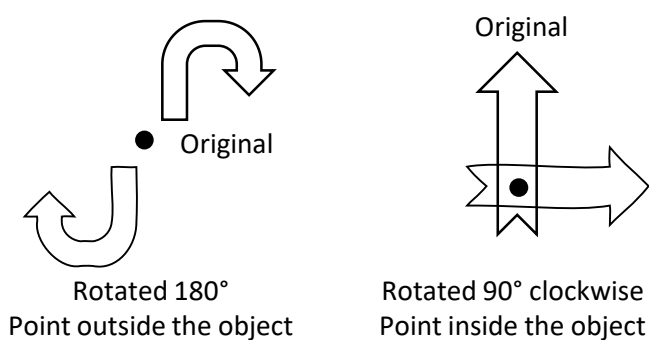


G Can change a shape by 2 transformations e.g. object enlarged and rotated.

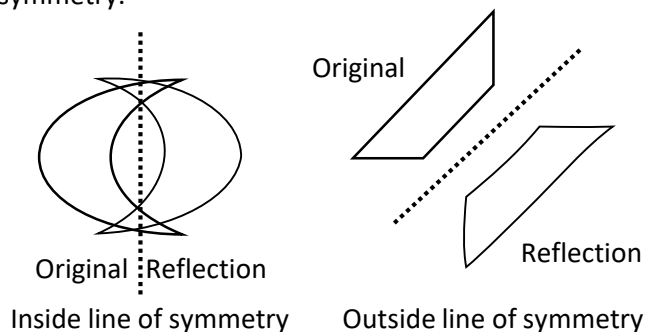
Enlargement : made bigger/ smaller by the same scale.



Rotation : from and inside and outside point. Understand degrees terminology 90° clockwise and anti-clockwise, 180°, 360°



Reflection : from an inside and outside line of symmetry.



Translation : shifted along a line.

