M9 - 1.1 - Symmetry/Rotational Notes

Types of Symmetry

Oblique Line of Symmetry

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Oblique Symmetry - flip on an angle over a diagonal line

Horizontal Line of Symmetry

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Vertical Symmetry- flip vertically over a horizontal line

Horizontal Symmetry - flip horizontally over a vertical line.

Vertical Line of Symmetry =
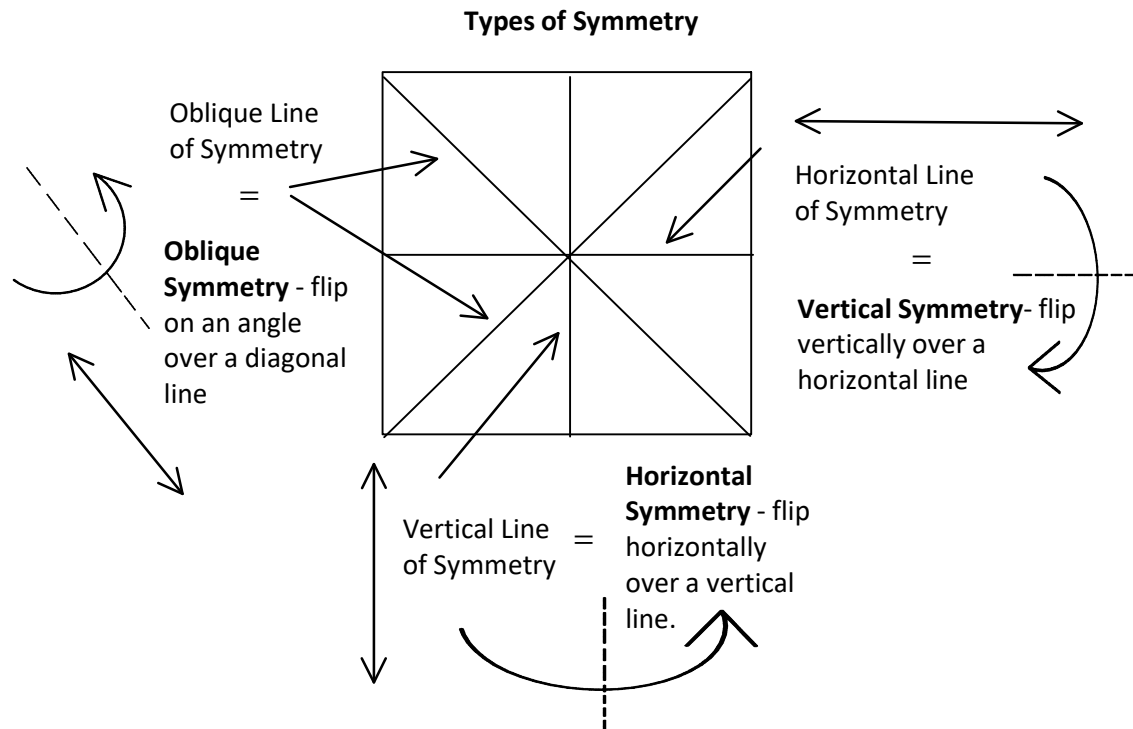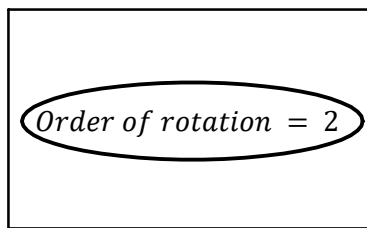

Order of Rotation: The number of times you can rotate the shape to be identical to its original orientation in one circle of rotation 360°.

$$Order\ of\ Rotation = \frac{360^o}{Angle\ of\ rotation}$$

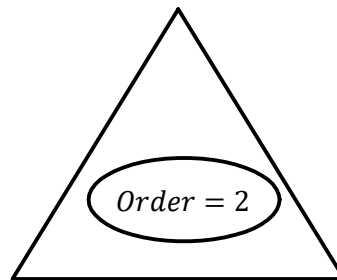$$Angle\ of\ Rotation = \frac{360^o}{Order\ of\ rotation}$$

$Order\ of\ rotation\ =\ 2$

$Order = 2$

$$Angle\ of\ Rotation = \frac{360^o}{2}$$

$$Angle\ of\ Rotation = \frac{360^o}{3}$$

$Angle\ of\ Rotation = 180^o$

$Angle\ of\ Rotation = 120^o$

If you rotate a rectangle 180°, it is in the same orientation it started.

If you rotate an equilateral triangle 120°, it is in the same orientation it started.