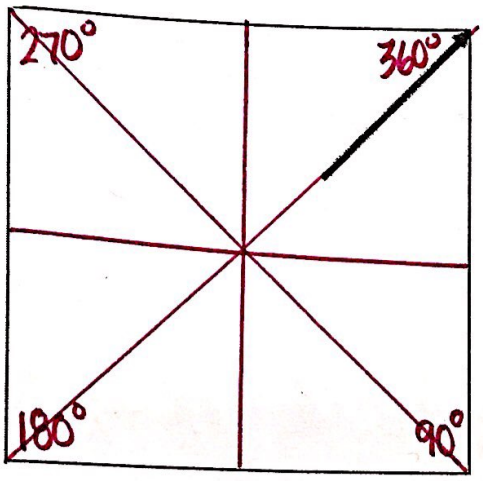
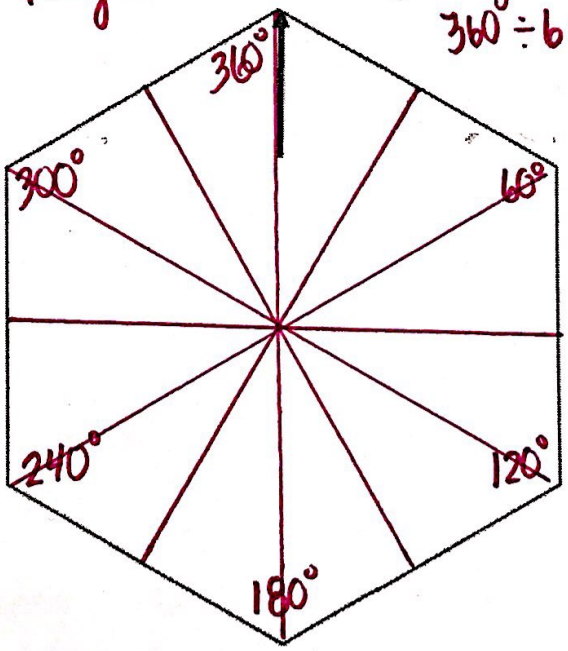
Square



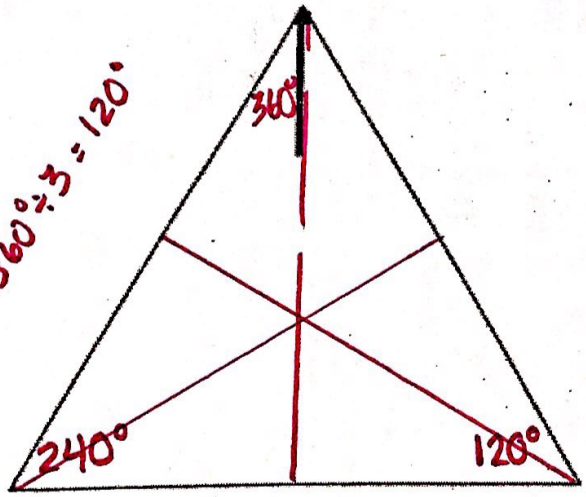
Regular Hexagon

$360° \div 6 = 60°$



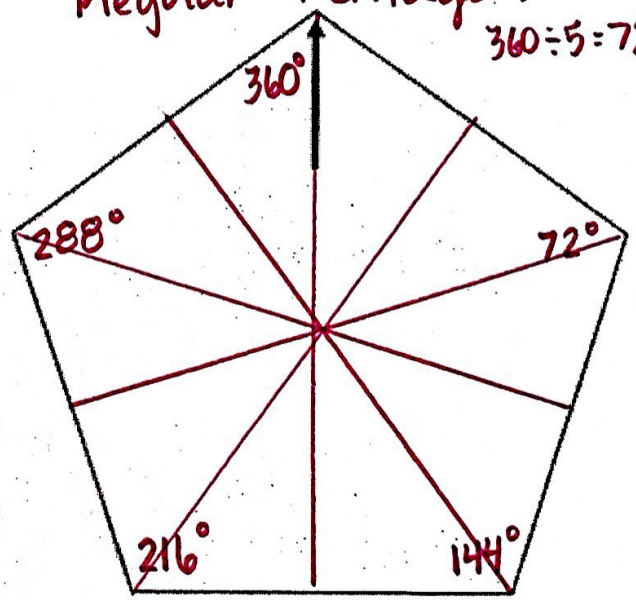
Equilateral Triangle

$360° \div 3 = 120°$

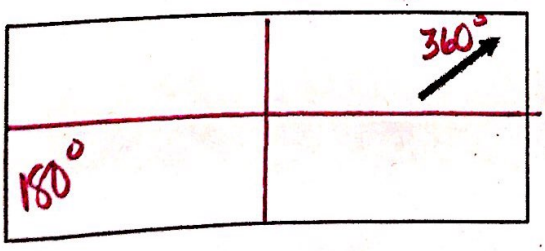


Regular Pentagon

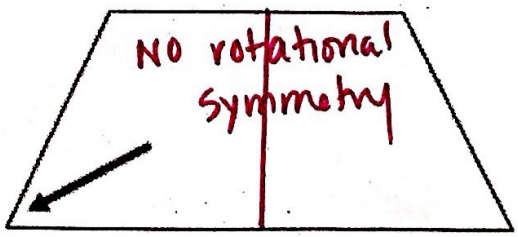
$360 \div 5 = 72°$



Rectangle



Trapezoid

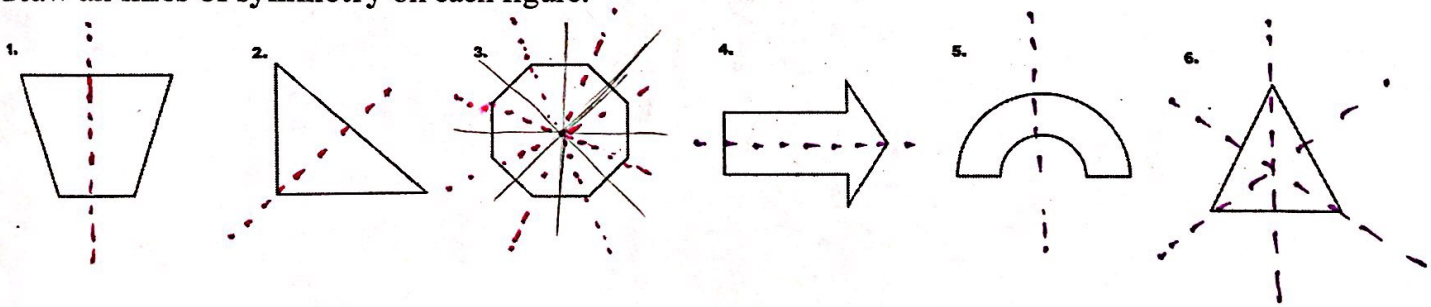


Name_____ Block _____

Symmetry

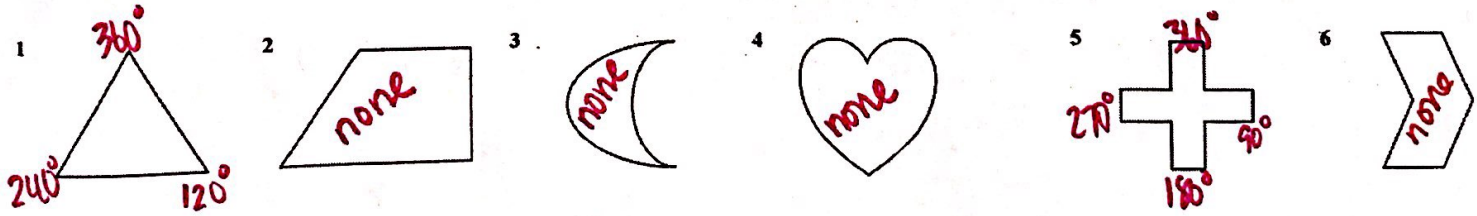
Name of Polygon	**Degrees of Rotation** that will map/carry the polygon onto itself.	**Number of Reflection Lines** that will map/carry the polygon onto itself.
Square	90°, 180°, 270°, 360°	4 lines of reflection
Equilateral △	120°, 240°, 360°	3
Regular Pentagon	72°, 144°, 216°, 288°, 360°	5
Regular Hexagon	60°, 120°, 180°, 240°, 300°, 360°	6
Rectangle	180°, 360°	2
Trapezoid	No rotational symmetry	1

Draw all **lines of symmetry** on each figure.



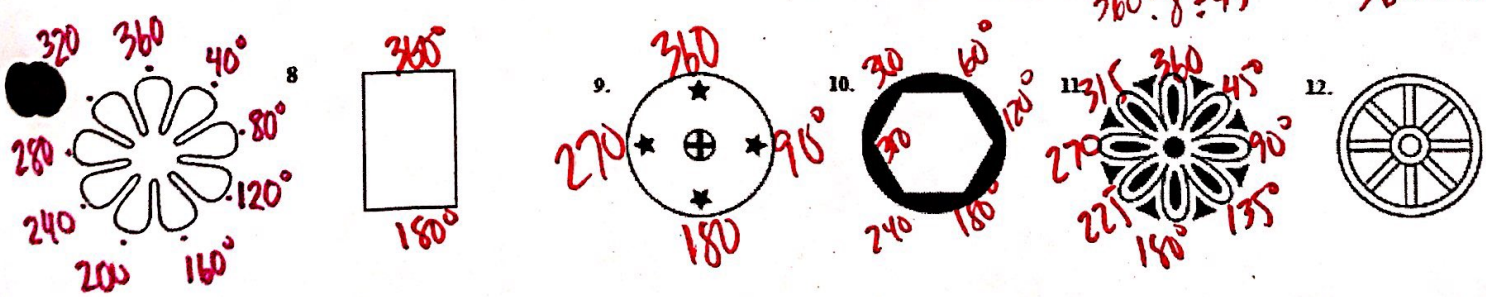
Determine if each figure has **rotational symmetry**. If it does, list all degrees of rotational symmetry that are less than 360 degrees.

360 ÷ 4

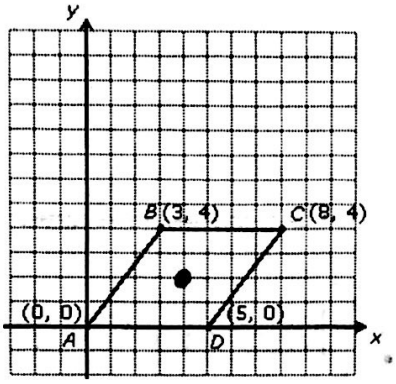


360 ÷ 8 = 45°

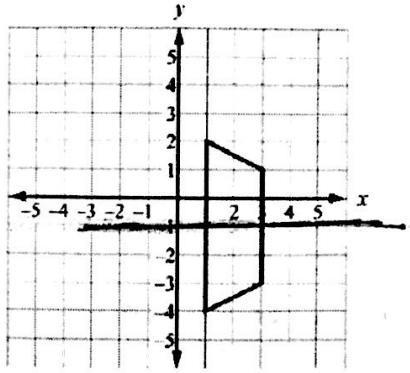
360 ÷ 8 = 45°



Fill in the blanks to list the transformations that map/carry each figure onto itself.

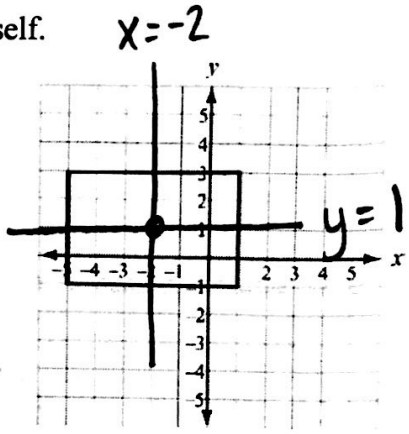


Rotate 180° degrees about (4, 2)



~~Reflect over the line _____~~

Reflect over the line y = -1



Reflect over the line x = -2

Reflect over the line y = 1

Rotate 180° degrees about (-2, 1)