Symmetry tables

Draw the lines on each shape, then count. Turn tracing paper to find the order.

Regular polygons

Shape	Sides	Lines of symmetry	Order of rotational symmetry
 equilateral triangle	3		
 square			
 regular pentagon			
 regular hexagon			
 regular octagon			
 regular decagon			

Four-sided shapes (quadrilaterals)

Shape	Sides	Lines of symmetry	Order of rotational symmetry
 square	4		
 rectangle			
 rhombus			
 parallelogram			
 kite			
 isosceles trapezium			
 irregular quadrilateral			

What do you notice about the regular polygons?

Answers: symmetry tables

Regular polygons

Shape	Sides	Lines of symmetry	Order of rotational symmetry
 equilateral triangle	3	3	3
 square	4	4	4
 regular pentagon	5	5	5
 regular hexagon	6	6	6
 regular octagon	8	8	8
 regular decagon	10	10	10

Four-sided shapes (quadrilaterals)

Shape	Sides	Lines of symmetry	Order of rotational symmetry
 square	4	4	4
 rectangle	4	2	2
 rhombus	4	2	2
 parallelogram	4	0	2
 kite	4	1	1
 isosceles trapezium	4	1	1
 irregular quadrilateral	4	0	1

What do you notice about the regular polygons?

Lines of symmetry = order of rotation = number of sides.