













KPI 7.16 Polygons		KPI 7.17 Symmetry and Reflection	
1) 3 sides	Triangle	1) Line symmetry	2) Rotational symmetry
3) 5 sides	Pentagon	The mirror lines of a shape, if a polygon is regular, the number of sides is equal to the number of lines of symmetry.	The number of positions in which the rotated object appears unchanged. The number of positions is called the order of the symmetry. For example, Order 3 tells us that a shape can be rotated into three positions where the shape appears unchanged.
5) 7 sides	Heptagon	Four lines of symmetry	Order 2
7) 9 sides	Nonagon	Square	No rotational symmetry
9) 11 sides	Hendecagon	Three lines of symmetry	Order 3
11) Equilateral triangle	 <ul style="list-style-type: none"> • 3 equal angles • 3 equal sides 	Equilateral Triangle	Order 4
13) Scalene triangle	 <ul style="list-style-type: none"> • All angles are different • All sides are different 	Six lines of symmetry	Order 5
15) Square	 <ul style="list-style-type: none"> • 4 right angles • 4 equal sides • 2 pairs of parallel sides 	Regular Hexagon	
17) Parallelogram	 <ul style="list-style-type: none"> • 2 pairs of equal sized angles • 2 pairs of parallel sides • 2 pairs of equal sides 	Regular Pentagon	
19) Trapezium	 <ul style="list-style-type: none"> • 1 pair of parallel sides 		
21) Isosceles trapezium	 <ul style="list-style-type: none"> • 1 pair of parallel sides • 2 pairs of equal sides • 2 pairs of equal sized angles 		
2) 4 sides	Quadrilateral		
4) 6 sides	Hexagon		
6) 8 sides	Octagon		
8) 10 sides	Decagon		
10) 12 sides	Dodecagon		
12) Isosceles triangle	 <ul style="list-style-type: none"> • 2 equal angles • 2 equal sides 		
14) Right angled triangle	 <ul style="list-style-type: none"> • One angle of 90° • Can be isosceles or scalene 		
16) Rectangle	 <ul style="list-style-type: none"> • 4 right angles • 2 pairs of parallel sides • 2 pairs of equal sides 		
18) Rhombus	 <ul style="list-style-type: none"> • 4 equal sides • 2 pairs of equal sized angles • 2 pairs of parallel sides 		
20) Right angled trapezium	 <ul style="list-style-type: none"> • 2 right angles • 1 pair of parallel sides 		
22) Kite	 <ul style="list-style-type: none"> • 1 pair of equal sized angles • 2 pairs of equal sides 		