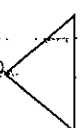
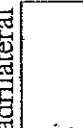

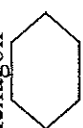

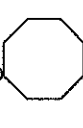




### Angles in Polygons Exploration

Name of polygon	Number of Sides	Number of Diagonals from a vertex	Number of triangles in polygon	Sum of interior angles	Measure or one interior angle (Regular Only)	Measure of one exterior angle (Regular Only)	Sum of exterior angles
Triangle 	3	0	1	180	60	120	360
Quadrilateral 	4	1	2	360	90	90	360
Pentagon 	5	2	3	540	108	72	360
Hexagon 	6	3	4	720	120	60	360
Heptagon 	7	4	5	900	128.57	51.43	360
Octagon 	8	5	6	1080	135	45	360
Nonagon 	9	6	7	<del>1260</del> 1260	140	40	360
Decagon 	10	7	8	1440	144	36	360
n-gon	n	n-3	n-2	(n-2)180	$\frac{(n-2)180}{n}$	$\frac{360}{n}$	360