

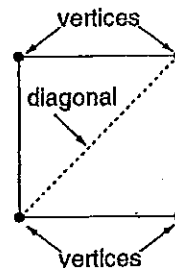
Name \_\_\_\_\_

# Sides, Vertices, and Diagonals of Polygons

A **vertex** is a point where the sides of a polygon meet.

A **diagonal** is a line segment that joins two nonadjacent vertices.

A square has 4 sides and 4 vertices. From any one vertex of a square, it is possible to draw only 1 diagonal. The diagonal will form 2 triangles. Since every triangle has a total of  $180^\circ$ , a square has a total of  $360^\circ$ .



Study each figure below. Then complete the table.

Figure	Number of sides	Number of vertices	Diagonals from 1 vertex	Number of triangles formed	Total number of degrees
A. 					
B. 					
C. 					
D. 					
E. 					
F. 					