***Squares and Vertices***

 Figure 1 Figure 2 Figure 3 Figure 4

How many vertices are there in Figure 1? Figure 2? Figure 3? Figure 4?

Organize the information in a table. Do you notice a relationship in the number of vertices? Make a conjecture to describe the pattern you see. Use this to make a prediction about the number of vertices in a figure with 20 squares.

How many vertices would there be in a figure with *n* squares?