1. What is the formula for the number of edges in $K_N$?
   $K_N$ has $\frac{N(N-1)}{2}$ edges.

2. Explain where this formula comes from — how to derive it.
   There are $N - 1$ edges touching each of the $N$ vertices, for a total of $N(N - 1)$ edges. But each edge is being counted twice—once from each endpoint. So you must divide by 2 to get the correct number of edges.