The 2-number is a numerical invariant which assigns an integer to a Riemannian manifold $M$ introduced in one of my joint articles with Professor T. Nagano. In this talk, I will present relationships between 2-number and several important areas of mathematics. Also, I will mention applications of 2-number to some important subjects in mathematics. At the end of my talk, I will present three conjectures on 2-number. (Received September 09, 2019)