There are many unsolved problems in number theory requiring new tools and techniques for their solutions. Consider the diophantine equation $x^3 + y^3 + z^3 = n$, where $n$ is a fixed positive integer and $x, y$, and $z$ are integers, positive or negative. Though a couple of research papers are available in the literature, most of them are of computational nature requiring computer searches to find solutions to the problem for some fixed values of $n$. In this paper, we will give infinitely many values of $n$ for which the title equation will have infinitely many integral solutions for $(x, y, z)$ with $x, y$, and $z$ pairwise coprime. The technique involved may help us to develop new insight for attacking this unsolved problem for a possible general solution. (Received September 05, 2007)