Let $A/K$ be an abelian variety over a global field $K$. For each place $v$ of $K$, one associates an integer $c(v)$ called the Tamagawa number of the place, using the reduction of the abelian variety at $v$. Let $c$ denote the product of the $c(v)$’s. Let $t$ denote the order of the torsion subgroup of Mordell-Weil group $A(K)$. The ratio $c/t$ is a factor in the leading term of the $L$-function of $A/K$ at $s = 1$ predicted by the conjecture of Birch and Swinnerton-Dyer. We investigate in this talk possible cancellations in the ratio $c/t$. For elliptic curves over $Q$, the smallest ratio $c/t$ is $1/5$, obtained only by the modular curve $X_1(11)$. (Received December 12, 2011)