Conway’s Wizard Problem can be mathematically summarized in the following way. Given a sum $s$ and a product $p$, do there exist two $n$-partitions of $s$ into distinct multisets such that both multisets have the same product $p$? If there are, we call $s$ sum-admissible and $p$ product-admissible. From this context, we define the following two functions. (1) $f(s) =$ number of $n$ values such that $s$ is sum-admissible. (2) $g(s) =$ number of $p$ values such that $s$ is sum-admissible; the case $g(s) = 1$ is precisely what we need to solve Conway’s problem. We derive and prove the formula for $f(s)$, and determine the value of $s$ that gives $g(s) = 1$. (Received September 16, 2019)