

7169 is a product of two distinct primes p and q , and $\varphi(7169) = 6996$. Find p and q .

You don't have to simplify numerical answers, but anybody with a calculator and zero knowledge of mathematics should be able to simplify it for you. For example, it's okay to say something like " $p = \frac{7169-4(271-2\cdot 432)}{58}$ ", but it's not okay to say " p is the smallest positive divisor of 7169".