Statement of Problem:
A perfect number is an integer that equals the sum of its proper positive factors. For example, the proper positive factors of 6 are 1,2 , and 3 . Since $1+2+3=6$, we refer to 6 as a perfect number. Similarly, $28=1+2+4+7+14$, so it is also a perfect number. I intend to show that the sum of the reciprocals of the positive factors of a perfect number is equal to 2 . Notice that for our two examples:
$1+1 / 2+1 / 3+1 / 6=2$ and $1+1 / 2+1 / 4+1 / 7+1 / 14+1 / 28=2$.

