\text{Proof:}

\text{Given any five consecutive integers n, n+1, n+2, n+3, n+4,then let S be the sum of the five numbers.}

\text{So} S = n + (n+1) + (n+2) + (n+3) + (n+4) = 5n + 10 = 5(n+2)

\text{By the Division Theorem, S is divisible by 5. The following conclusion is true.}