$$\sum_{k=0}^{n} k\binom{n}{k} = n2^{n-1}$$

if $k=1$

$$\Rightarrow \sum_{k=1}^{n} k\binom{n}{k} = n\sum_{k=1}^{n}\binom{n-1}{k-1}$$

Also let $k=Q$

$$\Rightarrow n\sum_{Q=0}^{n-1}\binom{n-1}{Q} = n2^{n-1}$$