Let $M$ be a subset of the vertices of the $n$-dimensional hypercube (or sometimes a subset of the vertices of the $n$ dimensional hypercube consisting of vertices of weight $k$, where $1 \leq k \leq n$ ). We will investigate the question and present a few results about the maximum size of $M$ assuming that the span (convex span) of the vertices in $M$ completely avoids (or does not contain) the hyperplane of the cube consisting of the vertices of weight $m, 1 \leq m \leq n$ (where the weight of a vertex is the number of 1 coordinates of it ). Interesting connections to other combinatorial questions are shown. E.g. partial answer to this innocent-looking question is given: assume there are $n$ (real) numbers given with a positive sum and consider all $k$-subsums of them (the sums of any $k$ different of them). At least how many of these subsums will be positive?

