

This thesis deals with multidimensional objects, which are known as Platonic and Archimedean solids in common euclidean space. Although we describe especially four-dimensional figures and their relations with lesser grade, this text is formulated in such a way, that includes even different dimensions, if it is possible in particular instances. There exist a few works about this and similar topics in foreign, but usually they require a little basics of algebra teaching at university. Our approach uses methods similar to these, which are normally teaching in descriptive geometry and therefore includes a large number of pictures. The matter is therefore available to secondary school students, who want to increase their space imagination.