

**Abstract:**

An error analysis that may appear in the process of a design of problems solved by geometrical constructions is this diploma's subject. The design of the geometrical construction is described as a cardinal part of searching for an ideal solving strategy. In the theoretical part of the thesis there are characterized crucial terms related to the subject (geometrical construction, design of a construction and error in the design), various ways of their defining and diverse approaches to these terms. An experiment exploring errors in a design of a geometrical construction made by second grade pupils of a grammar school with an eight-year study program was designed. Construction design errors were analysed by sorting according to their features and their possible causes were described. Suggestions of error applications in following geometry lessons arise from this analysis.

**Keywords:**

construction problems, geometrical construction, design of a construction, error in the design, causes of errors