

ABSTRACT

CHINTYA EKA SAPUTRI, 2022. *Analysis of the Misconceptions of Class X Students of SMA Muhammadiyah Equated with Makassar in Mathematics Learning SPLTV Subject Matter in terms of Cognitive Style.* Supervised by Supervisor 1 Dr. H. Djadir, M.Pd. and Advisor 2 Ilhamsyah, S.Pd., M.Pd.

The purpose of this study was to describe the types of misconceptions in students on SPLTV material and their causes in class X Muhammadiyah SMA Equated Makassar with Field Independent (FI) cognitive style and Field Dependent (FD) cognitive style According to Sternberg and Elena (1997), cognitive style is the bridge between intelligence and personality. Field independent cognitive style is the tendency of students in learning that has the characteristics of learning independently by prioritizing the ability to think analytically and mathematically. Students who have a field dependent cognitive style tend to think globally, are more easily influenced by criticism, they prefer to study social science, and are so dependent on the environment.

This type of research is descriptive research with a qualitative approach, research instruments, namely test question sheets and interview guide sheets. The method of analysis, using descriptive data, was carried out to obtain a general and comprehensive picture of the social situation under study. The results show that the types of misconceptions that occur for Field Independent (FI) and Field Dependent (FD) cognitive styles are classificational, theoretical and correlational theories, with the main cause being the teacher and the special cause, namely communication between students and teachers that does not go well and teaching method is only lecturing and asking children to take notes.

Keywords: Misconception, Field Independent, and Field Dependent