



ABSTRACT

The main purpose of the study was to determine the level of mathematical content knowledge and mathematics performance of the first batch of senior high school graduates under the K to 12 curriculum. The descriptive correlational method of research was used and the participants were 967 first year students studying at Cavite State University during second semester of the school year 2018-2019. A researcher-made mathematical content knowledge test was used in data gathering. Frequency, percentage, mean, range, standard deviation, one-way analysis of variance and Pearson r were used in the statistical analysis. Results revealed that the participants in all tracks/strands had an average performance in the mathematical content knowledge test except for the STEM strand with an above average performance. Results showed high level of knowledge in Logic and low level in Business Mathematics and Statistics. In terms of the level of mathematical content knowledge, the TVL track, GA, HUMMS and ABM strands were found to be in the Beginning level while the STEM strand was on Developing level. Results also showed that the TVL track, ABM and GA strands performed very poorly in Mathematics in the Modern World subject while STEM and HUMMS strand performed poorly. There were significant differences among the scores of students under the TVL track as compared to those in the STEM and ABM strands. Scores under the STEM strand were also significantly different from those under the HUMMS strand. There were significant differences among the grades of students under the STEM strand, TVL track and GA strand. The correlation between the students' scores and grades showed a significant relationship.

Key terms: mathematical content knowledge, mathematics performance, track, strand, K to 12 curriculum