

Introduction to the study of statistics in high school through a survey

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ABSTRACT

This abstract reports the accomplishment of a research activity proposed to a class of high school students as a form of introduction to the study of statistics in the discipline of mathematics. The activity aimed to provide students with the opportunity to get in touch with the paths taken to carry out a research and with statistical data, putting into practice concepts such as frequency distribution, use of tables and graphs and interpretation of results. Initially, an explanation was given about the main topics involved and fundamental to the realization of the activity. Then, the students were divided into pairs or trios and chose the themes of the research that will be carried out. Each group, with the help of the teacher, defined its research problem, statistical universe, sample and methodology for data collection. With a one-week break for this first stage, in the next class the students began to organize the data collected and present the results. The methodologies used by the students for data collection were interviews, questionnaires or online forms and the use of QR codes available on bulletin boards and other places with easy access to research participants. The final stage was to present the research to colleagues and evaluate the activity. The students showed a lot of interest and commitment throughout the activity and the results of the research were very interesting, demonstrating that the initial objectives were achieved and the students were able to build introductory concepts of statistics in a solid way and applicable to several generic situations. It was also possible to perceive that the knowledge built through the research carried out was very important for the development of other topics of statistics, demonstrating the importance of carrying out activities in which students can be protagonists.

Keywords: Research, Statistics, High School.

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