



## Science Communication Form

<b>Research title</b>	Pre-Service Class Teacher' Ability in Solving Mathematical Problems and Skills in Solving Daily Problems
<b>Year of Publication</b>	2016
<b>Researcher Name</b>	Nahil M. Aljaberi <sup>1</sup> & Eman Gheith <sup>1</sup>
<b>Faculty</b>	Arts and Sciences

---

### Summary and Conclusions:

This study aims to investigate the ability of pre-service class teacher at University of Petra in solving mathematical problems using Polya's Techniques, their level of problem solving skills in daily-life issues. The study also investigates the correlation between their ability to solve mathematical problems and their level of problem solving skills in daily-life issues. The study sample consisted of 65 female students majoring in class teacher. Data were collected using two questionnaires: the mathematical problem solving test which was developed by the researchers and daily life problem solving scale which was developed by (Hamdi, 1998). The findings indicate that students had high level skills in solving daily problems; there are no statistically significant differences in daily problem solving in relation to their academic year or high-school stream. Conversely, the findings also indicate weaknesses in students' skills in solving mathematical problems, with no statistically significant differences among students in solving mathematical problems according to Polya's problem solving steps. However, there were statistically significant differences in students' performance in solving mathematical problems in relation to the mathematical topic, and in favor of measurements and algebra; in addition to statistically significant differences in students' ability to solve mathematical problems in relation to academic year and high-school stream, but no correlation between students' abilities in solving mathematical problems and those in solving daily problems.

**Keywords :** problem solving, daily problems, mathematical problems, class teacher

---

**The benefit of research:** Determine the relationship between the ability to solve the mathematical problem and daily life problems in order to develop curricula

---