

Mathematical problem solving and the use of technology in the initial education and professional development of teachers

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Abstract: Recent and significant developments of digital technologies have been transforming the ways in which people communicate, interact, and get involved in social activities. What types mathematical activities are important for teachers to deal with in order to incorporate the coordinated use of several digital technologies in their teaching practices? I will present and discuss a mathematical task to illustrate ways of reasoning that emerge through the use of both multiple purpose and mathematical action technologies in representing, exploring, and discussing strategies, concepts and resources associated with the use of the tools.