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**Fermi problems involving big numbers: adapting a model to different situations.**

Ubuz, Behiye (ed.) et al., CERME 8. Proceedings of the eighth congress of the European Society of Research in Mathematics Education, Antalya, Turkey, February 6–10, 2013. Ankara: Middle East Technical University (ISBN 978-975-429-315-9). 930-939 (2013).

Summary: We describe a classroom experience based on the sequencing of Fermi problems related to estimating large quantities. The models used by a group of Compulsory Secondary Education (16 year-old) students are described herein. The variations the students apply to the models in order to adapt them to similar problems formulated in different contexts are shown. In the conclusions section, we reflect on this didactic proposal and the possibilities it offers to the students, so that they assimilate and internalize the models worked on.

*Classification:* M13

*Keywords:* Fermi problems; large quantities; modelling; real-life decision-making