

Modeling Towards Meaning of Functions

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The complete solution of real-life problems starts with the specification of the problem, its expression using mathematical concepts, solving it using a mathematical apparatus and interpreting its results using the terminology of the original problem area. In this four-stage process, graphing calculators can be efficiently used for speeding up its third (“purely mathematical”) stage. The application of ICT will free the teachers’ hands and allow them to concentrate on the pre-solution and post-solution relationships between the problem and its mathematical classification, representation, and meaning.

During our 60-minute hands-on workshop, this principle will be demonstrated on examples from financial mathematics and other real-life problems using CASIO ClassPad. The workshop participants can play the role of learners. They are also invited to discuss and express their opinions on even more effective exploitation of this flexible tool.

No previous experience with CASIO ClassPad is needed.