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Mathematization, modelling, model. (Matematyzacja, modelowanie, model.)

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Summary: The article presents conclusions concerning mathematization, which is a very vital mathematical activity, as well as conclusions concerning modelling and a model, including a mathematical model. Mathematical models are products of mathematization in certain real situations and they are used by people with different mathematical experience, not necessarily by mathematicians. They are used to describe a variety of phenomena, practically from all spheres of human activity. A very special type of mathematical models are the so-called probabilistic models of random experiments. The final part of our work concerns the means of constructing such models.

Classification: M10 K50

Keywords: mathematical modelling; probabilistic models of random experiments