

*Title:* On exemplification of probability zero events.

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*Abstract:* In this study the example space of pre-service secondary teachers on probability zero events is examined. Different aspects of such events as perceived by the respondents are discussed and their perception of impossible events versus improbable is studied. The examples are categorised in terms of the type of sample space and once again categorised in terms of how do they fit the classic definition of probability. The role of measure theory to approach probability is briefly looked at via the examples. Meanwhile the participants' understanding of "more complicated" is explored and different ways they add complexity to their examples are analysed.

*Keywords:* example space, classic probability, impossible events.