DEPENDENT AND INDEPENDENT EVENTS

Desiree Timmet
Statistics South Africa

Target audience: Further Education and Training educators

Duration: 1 hour

Maximum no. of participants: 30

Motivation for workshop
Probability is a relatively new topic in school mathematics and was also not part of a considerable number of educators' pre- service training and studies. Teaching data handling and probability poses a real challenge to some educators because their knowledge in this content area tends to be limited. In this workshop focus is placed on studying dependent and independent events using Tree diagrams and Contingency tables. This section forms part of content in the Curriculum and Policy Statement (CAPS), which should be taught in Grade 11.

PROPOSED TIME ALLOCATION FOR WORKSHOP ACTIVITIES

1. Interpretation / Discussion few Census 2011 findings/ Maths4stats project	10 Min
2. Discussion and interpretation on Probability in CAPS	5 Min
3. Probability problems from hand out (Dependent and independent Events)	35 Min
4. Summary of key concepts / handing out of complete MEMO	10 Min

ABSTRACT

Data handling is new to the South African school context which was introduced in the curriculum in 2003. No adequate study of statistical education existed in the past in order to capacitate educators. Maths4stats is Statistics South Africa's project intended to encourage the development of mathematics as bedrock of statistics. The purpose of this workshop will be on a deeper understanding of dependent and independent events by focussing on hands-on activities that educators could utilize in the classroom.

REFERENCE

Larson R & Farber B (2006). *Elementary Statistics*, Pearson Prentice Hall.

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Statistics South Africa (2013) *Data Handling & Probability, Grades 10, 11 & 12*. Mimeo.

Tshongwe, T. (2013). Manipulatives are not toys, use with caution: extracts from *Headstart Series Foundation* Phase. In Z. Davis & S. Jaffer (Eds.), *Proceedings of the 19th Annual Congress of the Association for Mathematics Education of South Africa*, Vol. 2. (pp. 65 - 70). Cape Town: AMESA.