

International Baccalaureate
MATHEMATICS
Analysis and Approaches (SL and HL)
Promathematics.com

Lecture Notes

TOPIC 4

STATISTICS AND PROBABILITY

4.1 BASIC CONCEPTS OF STATISTICS	1
4.2 MEASURES OF CENTRAL TENDENCY AND SPREAD	4
4.3 FREQUENCY TABLES – GROUPED DATA	11
4.4 REGRESSION	18
4.5 ELEMENTARY SET THEORY	22
4.6 PROBABILITY	27
4.7 CONDITIONAL PROBABILITY – INDEPENDENT EVENTS	32
4.8 TREE DIAGRAMS	38
4.9 DISCRETE DISTRIBUTIONS IN GENERAL	47
4.10 BINOMIAL DISTRIBUTION – $B(n,p)$	52
4.11 NORMAL DISTRIBUTION – $N(\mu,\sigma^2)$	57
Only for HL	
4.12 CONTINUOUS DISTRIBUTIONS IN GENERAL	69
4.13 COUNTING – PERMUTATIONS – COMBINATIONS	74