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Probability and Mathematical Statistics 1 Chapter 1 PROBABILITY OF EVENTS 1.1. Introduction During his lecture in 1929, Bertrand Russell said, "Probability is the most important concept in modern science, especially as nobody has the slightest notion what it means." Most people have some vague ideas about what probability of an event means.

PROBABILITY AND MATHEMATICAL STATISTICS

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Chapter 1 PROBABILITY REVIEW Basic Combinatorics Number of permutations of n distinct objects: $n!$ Not all distinct, such as, for example $aaabbc$: $6! / 3!2!1! = 6 \cdot 3 \cdot 2 \cdot 1 = 36$ or $N! / n_1! n_2! n_3! \dots n_k!$ def. = $\frac{N!}{n_1! n_2! n_3! \dots n_k!}$ in general, where $N = \sum_{i=1}^k n_i$ which is the total word length (multinomial coefficient).

MATH 2P82 MATHEMATICAL STATISTICS (Lecture Notes)

Chapter 1. Probability 1.1 Basic Concepts Scientific method a. For a given problem, we define measures that explains the problem well . b. Data is collected with observation and the measures are calculated. c. With the calculated measures, statistical inferences are conducted.

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Lecture Notes on Statistical Theory1

1 Introduction These notes were the result of a course on Mathematical Statistics for year-two undergraduates at the National University of Singapore offered in Semester 1 (Fall) 2011. Topics covered were Selected items in chapters 1-6, on probability Chapter 7 Survey sampling: up to, but excluding 7.4 ratio estimation.

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