

**BRONX COMMUNITY COLLEGE LIBRARY
SUGGESTED FOR
MATH 21
SURVEY OF MATHEMATICS I**

Textbook: Mathematical Palette, 3rd Edition
Authors: Ronald Staszko & Robert Bradshaw

4. 1- 4.6 PROBABILITY

Concepts of Probability; Calculating Probability

CODE NO.
DVD230.4

TITLE
**LIFE BY THE NUMBERS: - CHANCES OF A LIFETIME-
PROBABILITY- 57 min, c1999**

V2583.2

PRECALCULUS (SERIES)
SEQUENCES, INDUCTION; COUNTING; PROBABILITY
-33 min, c1996

V2497

PROBABILITY -13 min, c1992

V1055. 7

**INTRODUCTION TO PROBABILITY & STATISTICS (The Math
Tutor Series) -37min, c1986**

9.1 – 9.4 FINANCE MATTERS

Percents; Simple Interest; Compound Interest; Annuities

V2234.3

**TECHNIQUES IN PERCENTS: PROPORTIONS; RATIOS
TIME, & MONEY PROBLEMS (Real Math Series) -32 min, c1992**

V1502.3

**WORD PROBLEMS USING PERCENTS (Developmental Mathematics
Series) -30 min, c1991**

BRONX COMMUNITY COLLEGE
Of the City University of New York

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

SYLLABUS: MTH21 – SURVEY OF MATHEMATICS 1 [3 credits, meets 3 hours per week]

PREREQUISITE: MTH04 or equivalent; corequisite ENG02 and/or RDL02, if required

TEXT: “Mathematical Palette” by R. Stanzkow and R. Bradshaw, third edition, Brooks/Cole publishing, 2004

Numbers – Old and New (2 weeks)	Suggested homework
1.1 Ancient Systems of Numeration Egyptian and Roman systems. Other systems optional.	Page 14, problems 11, 13, 17, 19, 32 (a), (b)
1.2 Hindu – Arabic System and Fractions	Page 21, problems 1, 2, 3, 7-17 (odd), 21, 23
1.3 Numeration Systems with Other Bases	Page 28, problems 1, 2, 4, 5, 7-17 (odd), 19, 21, 23, 33, 34, 35
Sets and Counting (2 weeks)	
3.1 Sets: Finite and Infinite	Pages 119-121, problems 1-10 (all), 11, 25, 27
3.4 Introduction to Counting	Pages 143-145, problems 9-21 (odd), 25, 29, 31, 33, 43, 45
Probability (3 weeks)	
4.1 Intuitive Concepts of Probability	Pages 160-161, problems 1-6 (all) 13, 15, 17, 19
4.2 Calculating Probabilities	Pages 169-171, problems 5, 7, 11, 15, 17, 23, 25
4.3 Probability and Odds	Page 175, problems 1, 2, 7-15 (odd)
4.6 Expected Value	Pages 200-201, problems 1-4 (all), 9, 11, 13
Modeling with Algebra (4 weeks)	
6.1 Linear Models	Pages 290-293, problems 1-5 (all), 13, 15, 23, 25, 33
6.2 Quadratic Models	Pages 301-303, problems 1-4(all), 5-15(odd)
10.6 Linear Programming	Pages 580-584, problems 1-5 (all), 7-19 (odd), 25, 27, 29
Finance Matters (3 weeks)	
9.1 Percents	Pages 489-491, problems 1-5 (all), 11-23 (odd), 27, 29
9.2 Simple Interest	Pages 495-496, problems 7, 13, 19, 21, 23, 25, 29
9.3 Compound Interest	Pages 503-504, problems 9, 11, 15-27 (odd), 29, 31
9.4 Annuities	Pages 508-509, problems 1, 5, 7, 9, 11, 17, 19, 21, 25

C. O’S. / Fall 2004