

## 2021-22 Academic Pentathlon Mathematics Resource Guide Outline

Section I. Probability, Permutations and Combinations.....26%

- A. Probability
- B. Permutations
- C. Combinations

Section II. Statistics.....26%

- A. Measure of Central Tendency
- B. Organizing and Displaying Data
- C. Sequences

Section III. Algebra.....48%

- A. Base Terms in Set Theory
- B. Sets of Numbers
- C. Exponents and Roots
- D. Variables and Algebraic Expressions
- E. Equations
- F. Ratios and Proportions
- G. Monomials and Polynomials
- H. Factoring
- I. Solving Quadratic Equations
- J. Inequalities