2024-25 Academic Pentathlon Mathematics Resource Guide Outline

Section I. Pro	bability, Permutations and Combinations24%
A.	Probability
B.	Probability
C.	Combinations
Section II. Sta	itistics
A.	Measures of Central Tendency
B.	Organizing and Displaying Data
C.	Sequences
Section III. Al	gebra49%
A.	Basic 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
Н.	Factoring
I.	Solving Quadratic Equations
J.	Inequalities