

## 2022 年「學而思盃」P2 比賽大綱

本次比賽分為甲、乙、丙三部分。

甲部有 15 題，每題 2 分

乙部有 15 題，每題 4 分

丙部有 10 題，每題 6 分

比賽時間 60mins，共 40 題，滿分 150 分。

板塊	知識點
計算板塊	1. 整數加減巧算之湊整法 2. 添去括號 3. 整數加減巧算之位值原理 4. 整數乘法運算 5. 整數除法運算 6. 四則混合運算 7. 等量代換 8. 移多補少
計數板塊	1. 幾何計數 2. 立體圖形計數 3. 組數計數 4. 付錢方法枚舉
應用題板塊	1. 加減應用題 2. 年齡問題 3. 間隔問題 4. 帶餘除法 5. 排隊問題 6. 週期問題 7. 時間計算應用題
圖形板塊	1. 認識立體圖形 2. 畢克定理
數論板塊	1. 奇數與偶數的應用
組合板塊	1. 數列規律 2. 一筆畫 3. 直式數字謎 4. 比較型/條件型邏輯推理 5. 取火柴棒類遊戲

\*英文版僅作參考，以中文版為準。

## 2022 「Think Mathematics Competition」 P2's Outline

The competition is divided into three parts: A, B and C.

Section A: 1st to 15th Question (Each carries 2 marks)

Section B: 16th to 30th Question (Each carries 4 marks)

Section C: 31th to 40th Question (Each carries 6 marks)

The time is 60mins, with a total of 40 questions and a full score of 150 marks.

Modules	Knowledge
Calculation Modules	<ol style="list-style-type: none"> <li>1. Operation strategy in addition and subtraction of rounding Whole Numbers</li> <li>2. Adding or Deleting Brackets</li> <li>3. Operation strategy in addition and subtraction of applying place value principle of whole numbers</li> <li>4. Multiplication and Division of Whole Numbers</li> <li>5. Division of Whole Numbers</li> <li>6. Mixed Operations</li> <li>7. Equivalent Substitution</li> <li>8. Giving and Receiving</li> </ol>
Counting Modules	<ol style="list-style-type: none"> <li>1. Counting the Number of Figures</li> <li>2. Counting Solid Figures</li> <li>3. Forming Multi-Digit Numbers</li> <li>4. Ways of Paying</li> </ol>
Word Problem Modules	<ol style="list-style-type: none"> <li>1. Applications of Addition and Subtraction</li> <li>2. Age Problems</li> <li>3. Interval Problems</li> <li>4. Division with Remainders</li> <li>5. Queuing Problems</li> <li>6. Periodic Problems</li> <li>7. Time Calculation</li> </ol>
Geometry Modules	<ol style="list-style-type: none"> <li>1. Knowing Solid Figures</li> <li>2. Pick's Theorem</li> </ol>
Number Theory Modules	<ol style="list-style-type: none"> <li>1. Odd and Even Applications</li> </ol>
Combinatorics	<ol style="list-style-type: none"> <li>1. Patterns in Number Sequences</li> <li>2. One Stroke</li> <li>3. Number Puzzles</li> <li>4. Logical Reasoning</li> <li>5. Picking Sticks in Turn</li> </ol>

*\*English version is for reference only, the Chinese version shall prevail.*