

# 小五數學溫習摘要

Primary 5 Mathematics Revision Summary

## 5N2 分數（三）

### 5N2 Fractions III

比較異分母分數的大小，計算分數和帶分數的加減，並運用這些方法解應用題。

Compare fractions with different denominators, add and subtract fractions and mixed numbers, and solve word problems.

### 學習重點

#### What to learn

- 找出分母的公倍數作公分母；通分後，可比較不超過三個分數的大小，或進行加減。  
Use a common multiple as the common denominator to compare up to three fractions, or to add and subtract them.
- 處理兩個或三個分數的加減運算，並把答案化成最簡分數。  
Add or subtract two or three fractions and simplify the answer.
- 進行帶分數加減，按需要把帶分數化成假分數，或在整數部分借 1。  
Work with mixed numbers by changing them to improper fractions or by borrowing 1 from the whole-number part.
- 看清楚文字題問的是合起來、剩下、還是相差多少，再正確列式。  
Decide whether a word problem asks for a total, an amount left or a difference before writing the calculation.

### 考試前必記

#### Remember before a test

- 分母相同後，才可直接把分子相加或相減。通分時，分子和分母須乘以同一個非零整數。  
Add or subtract the numerators only after the denominators are the same. Multiply the numerator and denominator by the same number.
- 帶分數減法若分數部分不夠減，可從整數部分借 1，再把 1 化成同分母分數。  
When the fraction part is too small to subtract, borrow 1 from the whole-number part and rewrite it as a fraction with the same denominator.
- 運算後檢查能否約分；假分數按題目需要化成帶分數。  
Simplify the answer. Change an improper fraction to a mixed number when the question requires it.
- 先估計答案範圍，例如兩個小於 1 的分數相加，答案應小於 2。  
Estimate the range first. For example, the sum of two fractions smaller than 1 should be smaller than 2.

## 常見錯誤

### Common mistakes

- 把分母直接相加或相減。同一整體下，分母表示平均分成多少份；通分後只加減分子。  
Do not add or subtract denominators. For the same whole, the denominator states the number of equal parts. Add or subtract only numerators.
- 通分只改分母，沒有同步改分子。  
Changing the denominator but not the numerator when making equivalent fractions.
- 帶分數借 1 後忘記把整數部分減 1。  
Borrowing 1 in a mixed-number subtraction but forgetting to reduce the whole-number part by 1.
- 答案沒有約至最簡，或計算帶分數時弄錯整數部分和分數部分。  
Leaving the answer unsimplified or calculating the whole-number and fraction parts incorrectly.

## 快速自查

### Quick check

|                                                                                   |                                                                               |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <input type="checkbox"/> 能找出合適的公分母<br>I can find a suitable common denominator.   | <input type="checkbox"/> 能計算三個分數的加減<br>I can add or subtract three fractions. |
| <input type="checkbox"/> 能處理帶分數借位<br>I can borrow when subtracting mixed numbers. | <input type="checkbox"/> 能把答案化成最簡分數<br>I can simplify a fraction fully.       |