

小五數學溫習摘要

Primary 5 Mathematics Revision Summary

5N5 分數 (五)

5N5 Fractions V

學習分數與除法的關係、分數除法及四則混合運算。兩個數的積是 1，便互為倒數；0 沒有倒數。

Learn fractions as division, fraction division and mixed operations. Two numbers are reciprocals if their product is 1. Zero has no reciprocal.

學習重點

What to learn

- 分數可表示除法，例如 $3 \div 4 = 3/4$ 。計算整數與分數的除法時，除數不可為 0。
A fraction represents division, for example $3 \div 4 = 3/4$. In division involving whole numbers or fractions, the divisor must not be zero.
- 除以非零分數，等於乘以它的倒數；求倒數時，把該分數的分子和分母對調。
When dividing by a non-zero fraction, switch its numerator and denominator to make its reciprocal, then change division to multiplication.
- 處理包含整數、分數和帶分數的三個數運算。
Calculate expressions with three whole numbers, fractions or mixed numbers.
- 先算括號內，再算乘除，最後算加減；同一級的運算由左至右進行。
Evaluate brackets first, then multiplication and division, then addition and subtraction. Work left to right within the same level.

考試前必記

Remember before a test

- 除以分數時，只把除數倒轉，然後把除號改成乘號；被除數保持不變。
Only turn the divisor upside down and change the division sign to multiplication. Keep the dividend unchanged.
- 帶分數先化成假分數，整數可寫成分母為 1 的分數。
Change mixed numbers to improper fractions. Write a whole number over 1 when needed.
- 改成乘法後才可以約分，最後把答案化成最簡。
Cancel only after changing the calculation to multiplication, and simplify the final answer.
- 一個正數除以小於 1 的正分數，商必定比被除數大；0 除以非零數仍是 0。
A positive number divided by a positive fraction below 1 becomes larger. Zero divided by a non-zero number is zero.

常見錯誤

Common mistakes

- 把被除數和除數一起倒轉，或只倒轉分數而忘記把除號改成乘號。
Turning both numbers upside down, or turning the divisor upside down but forgetting to change division to multiplication.
- 混合運算由左至右亂算，沒有遵守括號和乘除優先。
Working only from left to right and ignoring brackets or the order of operations.
- 把約分套用到加減算式；應先按運算次序處理，只有整理成乘法後才約去公因數。
Trying to cancel in a sum or difference. Follow the operation order and cancel common factors only in a product.
- 文字題分不清每份有多少和共有多少份，令除法算式前後倒轉。
Confusing how much is in each group with the number of groups, and reversing the division calculation.

快速自查

Quick check

☐ 能寫出非零分數的倒數 I can find the reciprocal of a non-zero fraction.	☐ 能正確把除法改成乘法 I can change fraction division to multiplication.
☐ 能遵守混合運算次序 I can follow the order of operations.	☐ 能判斷商的大小是否合理 I can check whether the quotient is a sensible size.