

小五數學溫習摘要

Primary 5 Mathematics Revision Summary

5N3 分數（四）

5N3 Fractions IV

學會整數、分數和帶分數的乘法，並用乘法求出一個數的幾分之幾。

Learn to multiply whole numbers, fractions and mixed numbers, and find a fraction of a number.

學習重點

What to learn

- 進行整數乘分數、分數乘分數，以及三個數的乘法運算。
Multiply a whole number by a fraction, multiply two fractions, and multiply three numbers.
- 把帶分數化成假分數後進行乘法，答案按需要化成帶分數。
Change mixed numbers to improper fractions before multiplying. Change the answer back to a mixed number when needed.
- 在乘法中先約分再相乘，減少計算量並保持答案最簡。
Cancel common factors before multiplying to make the calculation shorter and keep the answer simple.
- 用分數乘法解答求一個數的幾分之幾、面積或倍數關係的文字題。
Use fraction multiplication to find a fraction of a number and solve area or comparison problems.

考試前必記

Remember before a test

- 分數乘法是分子乘分子、分母乘分母；整數可寫成分母為 1 的分數。
Multiply numerator by numerator and denominator by denominator. A whole number can be written over 1.
- 計算帶分數乘法時，先化成假分數；不可只把整數部分相乘、分數部分相乘，再相加。
Do not multiply the whole-number and fraction parts of a mixed number separately. Change it to an improper fraction first.
- 連乘時，可選一個分子和一個分母，同除以它們的公因數；重複約分後，再計算餘下的乘法。
In a product, divide a numerator and a denominator by their common factor. Repeat as needed, then multiply what remains.
- 一個正數乘以小於 1 的正分數，積必定比原數小；0 乘以任何數仍是 0。
A positive number multiplied by a positive fraction below 1 becomes smaller. Zero multiplied by any number is zero.

常見錯誤

Common mistakes

- 照分數加法的方法先通分；乘法一般不需要通分。
Finding a common denominator as if the question were fraction addition. Multiplication usually does not need a common denominator.
- 把帶分數的整數部分漏掉，或沒有化成假分數。
Leaving out the whole-number part of a mixed number or forgetting to change it to an improper fraction.
- 看見相同數字便約分，沒有留意中間有加減號；應先算好加減部分，再按乘法規則約分。
Cancelling matching numbers across a plus or minus sign. Evaluate those parts first, then cancel factors in the product.
- 約分後忘記把剩下的分子和分母相乘。
Forgetting to multiply the remaining numerators and denominators after cancelling.

快速自查

Quick check

☐ 能把帶分數化成假分數 I can change a mixed number to an improper fraction.	☐ 能正確進行分數乘法 I can multiply fractions correctly.
☐ 能在乘法中正確約分 I can cancel common factors correctly in multiplication.	☐ 能判斷積的大小是否合理 I can check whether the size of the product makes sense.