Decorative Ruled Stationery: Plan a Writing Sheet, Note Card, and Bordered Page

Original worked example / unchanged complete key

Prompt: A hypothetical ruled block is 257 mm tall. You choose 8 mm line spacing. How many full lines fit, and what is the remainder? Then check the same block with 9 mm spacing.

Answer: With 8 mm spacing: 257 divided by 8 is 32 full lines with 1 mm remainder, because 32 times 8 is 256 and 257 minus 256 is 1. With 9 mm spacing: 257 divided by 9 is 28 full lines with 5 mm remainder, because 28 times 9 is 252 and 257 minus 252 is 5. These are hypothetical inputs; substitute your measured ruled block height.

Reason: Division gives the number of complete intervals that fit. The remainder is the leftover height that cannot form a full interval at the chosen spacing.

Check: Multiply the line count by the spacing and add the remainder; the result should equal the ruled block height. For 8 mm: 32 times 8 plus 1 equals 257. For 9 mm: 28 times 9 plus 5 equals 257.