

A Printer's Problem

Problem-of-the-Week

The Problem

A printing company agreed to publish a book about Western history. When they were numbering the pages of the book, they noticed that they had used 2989 digits. How many pages long was the book they agreed to publish?



Strategies and Hints

1. Simplify the problem.
2. See if you can identify the pattern for different numbers of pages.
3. Try to estimate the solution.