Problem of the Week
Grade 11 and 12

Minimum Multiplier

The number 1867 is multiplied by a positive integer k. The last four digits of the product are 1992.

Determine the minimum value of k.

$$\begin{array}{r} 1\,8\,6\,7 \\ \times \quad ?\,?\,?\,?\,?\,? \\ \hline .\,.\,.\,1\,9\,9\,2 \end{array}$$