

Find the least number which when divided by 12, 16, 24 and 36 leaves a remainder 7 in each case.

$$\begin{array}{r|rrrr}
 2 & 12 & 16 & 24 & 36 \\
 \hline
 2 & 6 & 8 & 12 & 18 \\
 \hline
 2 & 3 & 4 & 6 & 9 \\
 \hline
 2 & 3 & 2 & 3 & 9 \\
 \hline
 3 & 3 & 1 & 3 & 9 \\
 \hline
 3 & 1 & 1 & 1 & 3 \\
 \hline
 & 1 & 1 & 1 & 1
 \end{array}$$

L.C.M. = $2 \times 2 \times 2 \times 2 \times 3 \times 3$

