

ALL THE DIGITS 140224

G L O R I A & E L I S H A

$$\begin{array}{r} \overset{1}{4} \overset{2}{5} \overset{1}{9} 6 \\ \times \qquad \qquad \qquad 3 \\ \hline 13788 \end{array} \quad \times$$

$$\begin{array}{r} \overset{2}{5} \overset{2}{6} \overset{1}{9} 4 \\ \times \qquad \qquad \qquad 3 \\ \hline 17082 \end{array} \quad \checkmark$$

Explanation:

We first eliminate 5 & 0 from the last digit of the 4 digit number because they 5×3 ends with 5, 0×3 ends with 0 and 1×3 ends with 3. 1, 2, 0, 7, 8 can't be in the 4 digit number because $1+2$ equals 3, $1+0=1$ and 7 & 8 is too big to be a consecutive number. That leaves 4, 5, 6, 9. $5+6$ is too big so do $4+5$ which equals 9 which makes 9 on the 3rd number of the 4 digits. So we keep using 4, 5, 6 in different orders until we get answer which is 17082