



## Pencil and Paper - multiplication

Q1

$$\begin{array}{r}
 \phantom{136}136 \\
 \times \phantom{136}9 \\
 \hline
 1224 \\
 \phantom{1224}35 \\
 \hline
 120744 \\
 \phantom{120744}1 \\
 \hline
 1120744
 \end{array}$$

( 136 × 9 ) →

( 136 × 70 ) →

Q2

$$\begin{array}{r}
 \phantom{244}244 \\
 \times \phantom{244}8 \\
 \hline
 1952 \\
 \phantom{1952}33 \\
 \hline
 196832 \\
 \phantom{196832}11 \\
 \hline
 1976832
 \end{array}$$

( 244 × 8 ) →

( 244 × 20 ) →

Q3

$$\begin{array}{r}
 \phantom{318}318 \\
 \times \phantom{318}66 \\
 \hline
 1908 \\
 \phantom{1908}14 \\
 \hline
 20988 \\
 \phantom{20988}1 \\
 \hline
 210988
 \end{array}$$

( 318 × 6 ) →

( 318 × 60 ) →



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Use long multiplication to calculate.

Q4

$$\begin{array}{r}
 \begin{array}{|c|c|c|} \hline 5 & 3 & 9 \\ \hline \end{array} \\
 \times \begin{array}{|c|} \hline 4 \\ \hline \end{array} \\
 \hline
 \begin{array}{|c|c|c|c|} \hline 2 & 1 & 5 & 6 \\ \hline \end{array}
 \end{array}$$
  

$$\begin{array}{r}
 \begin{array}{|c|c|} \hline 1 & 3 \\ \hline \end{array} \\
 \begin{array}{|c|c|c|c|c|} \hline 4 & 8 & 5 & 1 & 0 \\ \hline \end{array} \\
 \begin{array}{|c|c|c|c|} \hline & 3 & 8 & \\ \hline \end{array} \\
 \hline
 \begin{array}{|c|c|c|c|c|} \hline 5 & 0 & 6 & 6 & 6 \\ \hline \end{array} \\
 \hline
 \begin{array}{|c|c|c|c|} \hline 1 & & & \\ \hline \end{array}
 \end{array}$$

Use the same method to calculate. Draw your own grids in the spaces provided to help you.

Q5

$$119 \times 25 = \boxed{2975}$$