

Choose a Method

You can multiply three-digit numbers by breaking apart one of the factors.

To find 421×134 ,
break apart 134 into 1 hundred, 3 tens and 4 ones

STEP 1:

Multiply by
the ones.

$$\begin{array}{r} 421 \\ \times \quad 4 \\ \hline 1,684 \end{array}$$

STEP 2:

Multiply by
the tens.

$$\begin{array}{r} 421 \\ \times 30 \\ \hline 12,630 \end{array}$$

STEP 3:

Multiply by
the hundreds.

$$\begin{array}{r} 421 \\ \times 100 \\ \hline 42,100 \end{array}$$

STEP 4:

Add the
products.

$$\begin{array}{r} 421 \\ \times 134 \\ \hline 1,684 \leftarrow 4 \times 421 \\ 12,630 \leftarrow 30 \times 421 \\ + 42,100 \leftarrow 421 \times 134 \\ \hline 56,214 \end{array}$$

So, $421 \times 134 = 56,214$.

Examples:

A- Find the product. Choose mental math or paper and pencil.

$$\begin{array}{r} 1) \ 400 \\ \times 15 \\ \hline 2000 \\ +4000 \\ \hline 6000 \end{array}$$

$$\begin{array}{r} 2) \ 6,734 \\ \times 324 \\ \hline 26936 \\ 134680 \\ +2020200 \\ \hline 21816 \end{array}$$

$$\begin{array}{r} 3) \ 8,595 \\ \times 768 \\ \hline 68760 \\ 515700 \\ +6016500 \\ \hline 6600960 \end{array}$$