

Multiplying by 2-digit numbers

When multiplying a number by a 2-digit number think about multiplying by ones and then by the tens.

$$\begin{array}{r} 35 \\ \times 17 \\ \hline \end{array}$$

Step 1: Multiply by the ones digit
Regroup if needed.
Add the regrouped tens

Step 2: Put a zero in the ones place
Because you are actually multiplying by tens
Multiply by the ten's digit
Regroup if needed.

Step 3: Add the products and regroup if needed.

Another way to think:

$$\begin{array}{r} 35 \\ \times 17 \end{array} = \begin{array}{r} 35 \\ \times 7 \end{array} + \begin{array}{r} 35 \\ \times 10 \end{array} = \begin{array}{r} 245 \\ + 350 \end{array}$$

Your turn: Multiply to find the product

$$\begin{array}{r} 323 \\ \times 43 \end{array}$$

$$\begin{array}{r} 478 \\ \times 56 \end{array}$$

$$\begin{array}{r} 597 \\ \times 70 \end{array}$$

$$\begin{array}{r} 607 \\ \times 87 \end{array}$$

$$\begin{array}{r} 708 \\ \times 64 \end{array}$$