

# Lesson 4.7 Multiplying 2 Digits by 2 Digits

$$\begin{array}{r} 19 \\ \times 27 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ 19 \\ \times 27 \\ \hline 133 \end{array}$$

Multiply 9 ones by 7.  
Put 6 tens above the 1.  
Multiply 1 ten by 7.  
Then, add 6 tens.

$$\begin{array}{r} 1 \\ 19 \\ \times 27 \\ \hline 133 \\ 380 \\ \hline 513 \end{array}$$

Multiply 9 ones by 20.  
Put 1 hundred above the 1.  
Multiply 1 ten by 20.  
Then, add 1 hundred.

$$\begin{array}{r} 19 \\ \times 27 \\ \hline 133 \\ + 380 \\ \hline 513 \end{array} \left. \vphantom{\begin{array}{r} 19 \\ \times 27 \\ \hline 133 \\ + 380 \\ \hline 513 \end{array}} \right\} \text{Add.}$$

Multiply.

**a**

$$\begin{array}{r} 22 \\ \times 33 \\ \hline \end{array}$$

**b**

$$\begin{array}{r} 11 \\ \times 45 \\ \hline \end{array}$$

**c**

$$\begin{array}{r} 80 \\ \times 10 \\ \hline \end{array}$$

**d**

$$\begin{array}{r} 31 \\ \times 23 \\ \hline \end{array}$$

**e**

$$\begin{array}{r} 13 \\ \times 12 \\ \hline \end{array}$$

**f**

$$\begin{array}{r} 30 \\ \times 31 \\ \hline \end{array}$$

**2.**

$$\begin{array}{r} 41 \\ \times 21 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ \times 20 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ \times 31 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ \times 10 \\ \hline \end{array}$$

**3.**

$$\begin{array}{r} 22 \\ \times 44 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ \times 20 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 90 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ \times 13 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ \times 11 \\ \hline \end{array}$$

**4.**

$$\begin{array}{r} 70 \\ \times 11 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 11 \\ \hline \end{array}$$

$$\begin{array}{r} 81 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ \times 22 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \\ \times 31 \\ \hline \end{array}$$