

Two-Digit Multipliers

#15

Steps in multiplying by a two-digit factor:

1. Multiply the top factor 27 by the 1 in the bottom factor 51.
2. Multiply 27 by 5 and leave the space below the 7 empty because you are multiplying by a tens' digit.
3. Add the partial products.

$$\begin{array}{r}
 27 \text{ factor} \\
 \times 51 \text{ factor} \\
 \hline
 27 \text{ partial product} \\
 + 135 \text{ partial product} \\
 \hline
 1,377 \text{ product}
 \end{array}$$

a. $\begin{array}{r} 4,783 \\ \times 6 \end{array}$

b. $\begin{array}{r} 9,504 \\ \times 7 \end{array}$

c. $\begin{array}{r} 8,729 \\ \times 3 \end{array}$

d. $\begin{array}{r} 6,041 \\ \times 6 \end{array}$

e. $\begin{array}{r} 9,487 \\ \times 5 \end{array}$

f. $\begin{array}{r} 75 \\ \times 37 \end{array}$

g. $\begin{array}{r} 97 \\ \times 25 \end{array}$

h. $\begin{array}{r} 67 \\ \times 43 \end{array}$

i. $\begin{array}{r} 19 \\ \times 27 \end{array}$

j. $\begin{array}{r} 65 \\ \times 48 \end{array}$

2. Work.

a. $\begin{array}{r} 97 \\ \times 15 \end{array}$

b. $\begin{array}{r} 24 \\ \times 32 \end{array}$

c. $\begin{array}{r} 47 \\ \times 26 \end{array}$

3. Answer quickly.

a. $\begin{array}{r} 6 \\ \times 7 \end{array}$

b. $\begin{array}{r} 4 \\ \times 3 \end{array}$

c. $\begin{array}{r} 12 \\ \times 5 \end{array}$

d. $\begin{array}{r} 11 \\ \times 6 \end{array}$

e. $\begin{array}{r} 9 \\ \times 7 \end{array}$

f. $\begin{array}{r} 6 \\ \times 6 \end{array}$

g. $\begin{array}{r} 7 \\ \times 3 \end{array}$

h. $\begin{array}{r} 9 \\ \times 4 \end{array}$

i. $\begin{array}{r} 12 \\ \times 6 \end{array}$

j. $\begin{array}{r} 10 \\ \times 5 \end{array}$

k. $5 \times \underline{\quad} = 35$

l. $\underline{\quad} \times 9 = 27$

m. $7 \times \underline{\quad} = 28$