

Multiplying 2-Digit Numbers (with guides)

A-MM2 1

Instructions: Multiply these numbers.

Example

The 2 got carried and then was crossed off after it was added to the answer from 4×1

This 1 got carried during the addition we did to get the final answer

$$\begin{array}{r}
 17 \\
 \times 24 \\
 \hline
 68 \\
 + 340 \\
 \hline
 408
 \end{array}$$

This 1 got carried from multiplying the second bottom digit. ($2 \times 7 = 14$)

1

$$\begin{array}{r}
 23 \\
 \times 12 \\
 \hline
 \\
 + 0 \\
 \hline

 \end{array}$$

2

$$\begin{array}{r}
 12 \\
 \times 35 \\
 \hline
 \\
 + 0 \\
 \hline

 \end{array}$$

3

$$\begin{array}{r}
 18 \\
 \times 13 \\
 \hline
 \\
 + 0 \\
 \hline

 \end{array}$$

4

$$\begin{array}{r}
 42 \\
 \times 16 \\
 \hline
 \\
 + 0 \\
 \hline

 \end{array}$$

5

$$\begin{array}{r}
 47 \\
 \times 26 \\
 \hline
 \\
 + 0 \\
 \hline

 \end{array}$$

6

$$\begin{array}{r}
 42 \\
 \times 58 \\
 \hline
 \\
 + 0 \\
 \hline

 \end{array}$$

Multiplying 2-digit numbers by 3-digit numbers (with guides)

A-MM 2

Instructions: Multiply these numbers.

Example

$$\begin{array}{r}
 \begin{array}{r}
 24 \\
 12 \\
 \hline
 248
 \end{array} \\
 \times 53 \\
 \hline
 1744 \\
 + 12400 \\
 \hline
 13144
 \end{array}$$

Don't forget to cross off the digits you carry from the first answer line after you are finished with them.

1

$$\begin{array}{r}
 186 \\
 \times 43 \\
 \hline
 \\
 + 0 \\
 \hline

 \end{array}$$

2

$$\begin{array}{r}
 507 \\
 \times 83 \\
 \hline
 \\
 + 0 \\
 \hline

 \end{array}$$

3

$$\begin{array}{r}
 612 \\
 \times 37 \\
 \hline
 \\
 + 0 \\
 \hline

 \end{array}$$

4

$$\begin{array}{r}
 429 \\
 \times 35 \\
 \hline
 \\
 + 0 \\
 \hline

 \end{array}$$

5

$$\begin{array}{r}
 722 \\
 \times 56 \\
 \hline
 \\
 + 0 \\
 \hline

 \end{array}$$

6

$$\begin{array}{r}
 365 \\
 \times 24 \\
 \hline
 \\
 + 0 \\
 \hline

 \end{array}$$

Multiplying by a 3-Digit Number (with guides)

A-MM2 3

Instructions: Multiply these numbers.

Example

$$\begin{array}{r}
 \begin{array}{c} 2 \\ 1 \\ 1 \\ 1 \end{array} \\
 653 \\
 \times 432 \\
 \hline
 1306 \\
 19590 \\
 + 261200 \\
 \hline
 282096
 \end{array}$$

Because we have 3 answers, there are 3 sets of carried digits.

Remember, our third answer line needs two zeros so that it's 100 times bigger.

1

$$\begin{array}{r}
 172 \\
 \times 325 \\
 \hline
 \square\square\square \\
 \square\square\square 0 \\
 + \square\square\square 00 \\
 \hline
 \square\square\square\square\square
 \end{array}$$

2

$$\begin{array}{r}
 637 \\
 \times 204 \\
 \hline
 \square\square\square \\
 \square\square\square 0 \\
 + \square\square\square 00 \\
 \hline
 \square\square\square\square\square
 \end{array}$$

3

$$\begin{array}{r}
 508 \\
 \times 463 \\
 \hline
 \square\square\square\square \\
 \square\square\square\square 0 \\
 + \square\square\square\square 00 \\
 \hline
 \square\square\square\square\square\square
 \end{array}$$

4

$$\begin{array}{r}
 1,217 \\
 \times 539 \\
 \hline
 \square\square\square\square\square \\
 \square\square\square\square\square 0 \\
 + \square\square\square\square\square 00 \\
 \hline
 \square\square\square\square\square\square\square
 \end{array}$$

Multi-Digit Multiplication Practice

A-MM2 4

Instructions: Multiply these numbers.

$$\begin{array}{r} \text{1} \\ \text{2} \\ \text{1} \\ \times 48 \\ \times 23 \\ \hline 144 \\ + 960 \\ \hline 1,104 \end{array}$$

$$\text{2} \quad \begin{array}{r} 37 \\ \times 75 \\ \hline \end{array}$$

$$\text{3} \quad \begin{array}{r} 98 \\ \times 41 \\ \hline \end{array}$$

$$\text{4} \quad \begin{array}{r} 52 \\ \times 16 \\ \hline \end{array}$$

$$\text{5} \quad \begin{array}{r} 86 \\ \times 43 \\ \hline \end{array}$$

$$\text{6} \quad \begin{array}{r} 135 \\ \times 94 \\ \hline \end{array}$$

$$\text{7} \quad \begin{array}{r} 605 \\ \times 26 \\ \hline \end{array}$$

$$\text{8} \quad \begin{array}{r} 514 \\ \times 72 \\ \hline \end{array}$$

$$\text{9} \quad \begin{array}{r} 371 \\ \times 54 \\ \hline \end{array}$$