

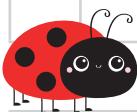
Long Multiplication Fluency

Use a formal method of long multiplication to solve these calculations.



1.

| | | | |
|-------|---|---|---|
| 3 | 1 | 2 | |
| x | 2 | 4 | |
| 1 | 2 | 4 | 8 |
| 6 | 2 | 4 | 0 |
| <hr/> | | | |



2.

| | | |
|-------|---|---|
| 4 | 7 | 3 |
| x | 1 | 5 |
| 0 | | |
| <hr/> | | |

3.

| | | |
|-------|---|---|
| 2 | 9 | 4 |
| x | 3 | 6 |
| <hr/> | | |

4.

| | | |
|-------|---|---|
| 9 | 5 | 7 |
| x | 2 | 8 |
| <hr/> | | |

5.

| | | | |
|-------|---|---|---|
| 1 | 3 | 6 | 2 |
| x | 3 | 2 | |
| <hr/> | | | |

6.

| | | | |
|-------|---|---|---|
| 1 | 7 | 3 | 5 |
| x | 4 | 1 | |
| <hr/> | | | |

7.

| | | | |
|-------|---|---|---|
| 1 | 0 | 5 | 7 |
| x | 5 | 7 | |
| <hr/> | | | |

8.

| | | | |
|-------|---|---|---|
| 3 | 1 | 6 | 6 |
| x | 2 | 9 | |
| <hr/> | | | |

9.

| | | | |
|-------|---|---|---|
| 2 | 0 | 0 | 3 |
| x | 4 | 9 | |
| <hr/> | | | |

Long Multiplication Fluency

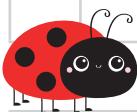
Answers

Use a formal method of long multiplication to solve these calculations.



1.

$$\begin{array}{r}
 & 3 & 1 & 2 \\
 \times & 2 & 4 \\
 \hline
 1 & 2 & 4 & 8 \\
 6 & 2 & 4 & 0 \\
 \hline
 7 & 4 & 8 & 8
 \end{array}$$



2.

$$\begin{array}{r}
 & 4 & 7 & 3 \\
 \times & 1 & 5 \\
 \hline
 2 & 3 & 6 & 5 \\
 4 & 7 & 3 & 0 \\
 \hline
 7 & 0 & 9 & 5
 \end{array}$$

3.

$$\begin{array}{r}
 & 2 & 9 & 4 \\
 \times & 3 & 6 \\
 \hline
 1 & 7 & 6 & 4 \\
 8 & 8 & 2 & 0 \\
 \hline
 1 & 0 & 5 & 8 & 4
 \end{array}$$

4.

$$\begin{array}{r}
 & 9 & 5 & 7 \\
 \times & 2 & 8 \\
 \hline
 7 & 6 & 5 & 6 \\
 1 & 9 & 1 & 4 & 0 \\
 \hline
 2 & 6 & 7 & 9 & 6
 \end{array}$$

5.

$$\begin{array}{r}
 & 1 & 3 & 6 & 2 \\
 \times & 3 & 2 \\
 \hline
 2 & 7 & 2 & 4 \\
 4 & 0 & 8 & 6 & 0 \\
 \hline
 4 & 3 & 5 & 8 & 4
 \end{array}$$

6.

$$\begin{array}{r}
 & 1 & 7 & 3 & 5 \\
 \times & 4 & 1 \\
 \hline
 1 & 7 & 3 & 5 \\
 6 & 9 & 4 & 0 & 0 \\
 \hline
 7 & 1 & 1 & 3 & 5
 \end{array}$$

7.

$$\begin{array}{r}
 & 1 & 0 & 5 & 7 \\
 \times & 5 & 7 \\
 \hline
 7 & 3 & 9 & 9 \\
 5 & 2 & 8 & 5 & 0 \\
 \hline
 6 & 0 & 2 & 4 & 9
 \end{array}$$

8.

$$\begin{array}{r}
 & 3 & 1 & 6 & 6 \\
 \times & 2 & 9 \\
 \hline
 2 & 8 & 4 & 9 & 4 \\
 6 & 3 & 3 & 2 & 0 \\
 \hline
 9 & 1 & 8 & 1 & 4
 \end{array}$$

9.

$$\begin{array}{r}
 & 2 & 0 & 0 & 3 \\
 \times & 4 & 9 \\
 \hline
 1 & 8 & 0 & 2 & 7 \\
 8 & 0 & 1 & 2 & 0 \\
 \hline
 9 & 8 & 1 & 4 & 7
 \end{array}$$