Multiplying Decimals

A rectangular sign measures 12.6 meters by 4.2 meters. How many square meters is the sign?

We multiply the two decimals.

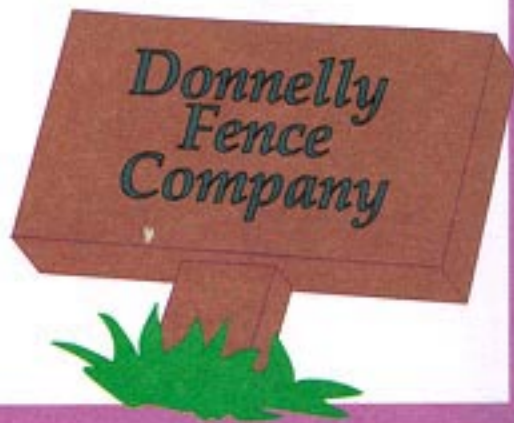| Step 1 Multiply.	Step 2 Write the product so it has as many places as the sum of the decimal places in the factors.

$$
\begin{array}{r}
1\,2\,.\,6 \\
\times\;\;\;4\,.\,2 \\
\hline
2\,5\,2 \\
+\,5\,0\,4 \\
\hline
5\,2\,9\,2
\end{array}
$$

$$
\begin{array}{r}
1\,2\,.\,6 \quad \leftarrow\text{one decimal place} \\
\times\;\;\;4\,.\,2 \quad \leftarrow\text{one decimal place} \\
\hline
5\,2\,.\,9\,2 \quad \leftarrow\text{two decimal places}
\end{array}
$$

The sign is 52.92 square meters.

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1 Multiply. Find your answers in the boxes on the next page. Write your numbers in order from least to greatest and the corresponding word on the line below it. When you are done you will have written the words spoken by Jesus and recorded in Matthew 5:44. The first one has been done for you.

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

$$
\begin{array}{r}
1\,5 \\
\times\,0\,.\,0\,2 \\
\hline
\end{array}
\qquad
\begin{array}{r}
0\,.\,1\,6 \\
\times\;\;\;2\,.\,4 \\
\hline
\end{array}
\qquad
\begin{array}{r}
2\,.\,6 \\
\times\,0\,.\,2\,2 \\
\hline
\end{array}
\qquad
\begin{array}{r}
1\,5\,.\,2 \\
\times\;\;\;0\,.\,4 \\
\hline
\end{array}
\qquad
\begin{array}{r}
1\,.\,1\,9 \\
\times\;\;\;6\,.\,3 \\
\hline
\end{array}
$$

$$
\begin{array}{r}
1\,.\,1 \\
\times\,5\,.\,9 \\
\hline
\end{array}
\qquad
\begin{array}{r}
3\,.\,4\,1 \\
\times\;\;\;2\,.\,2 \\
\hline
\end{array}
\qquad
\begin{array}{r}
2\,2\,.\,6 \\
\times\;\;\;1\,.\,8 \\
\hline
\end{array}
\qquad
\begin{array}{r}
5\,.\,2 \\
\times\,3\,.\,2 \\
\hline
\end{array}
\qquad
\begin{array}{r}
2\,.\,3\,2 \\
\times\;\;\;1\,.\,5 \\
\hline
\end{array}
$$