

# Lesson 1.6 Multiplying Decimals

$$\begin{array}{r}
 14.\overline{36} \\
 \times \quad \overline{9.5} \\
 \hline
 7180 \\
 + 129240 \\
 \hline
 136.420 \\
 \underbrace{\phantom{136.420}}_{321}
 \end{array}$$

$$\begin{array}{|c|}
 \hline 2 \\
 + 1 \\
 \hline 3 \\
 \hline
 \end{array}$$

Where does the decimal go in the product? Count how many numbers are decimals in *both* factors of the problem. Add them together and count that number of places from the right.

$$\begin{array}{r}
 1.\overline{085} \\
 \times \quad \overline{2.25} \\
 \hline
 5425 \\
 21700 \\
 + 217000 \\
 \hline
 2.44125 \\
 \underbrace{\phantom{2.44125}}_{54321}
 \end{array}$$

$$\begin{array}{|c|}
 \hline 3 \\
 + 2 \\
 \hline 5 \\
 \hline
 \end{array}$$

Multiply.

**a**

$$\begin{array}{r}
 1. \quad 27.25 \\
 \times \quad 1.4 \\
 \hline
 \end{array}$$

**b**

$$\begin{array}{r}
 4.36 \\
 \times 29 \\
 \hline
 \end{array}$$

**c**

$$\begin{array}{r}
 12.2 \\
 \times 0.76 \\
 \hline
 \end{array}$$

**d**

$$\begin{array}{r}
 46.33 \\
 \times 1.5 \\
 \hline
 \end{array}$$

**e**

$$\begin{array}{r}
 0.92 \\
 \times 0.74 \\
 \hline
 \end{array}$$

**2.**

$$\begin{array}{r}
 36.12 \\
 \times 0.7 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 16.3 \\
 \times 7 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 72.06 \\
 \times 0.8 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 45.5 \\
 \times 0.09 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 12.07 \\
 \times 0.6 \\
 \hline
 \end{array}$$

**3.**

$$\begin{array}{r}
 1.82 \\
 \times 1.7 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 14.76 \\
 \times 9.3 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 7.095 \\
 \times 0.73 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 0.196 \\
 \times 4.6 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 767.5 \\
 \times 0.27 \\
 \hline
 \end{array}$$

**4.**

$$\begin{array}{r}
 173 \\
 \times 1.29 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 42.95 \\
 \times 4.46 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 1.46 \\
 \times 0.795 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 92.75 \\
 \times 76.4 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 0.367 \\
 \times 5.64 \\
 \hline
 \end{array}$$

**5.**

$$\begin{array}{r}
 12.07 \\
 \times 0.09 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 46.7 \\
 \times 5^* \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 0.197 \\
 \times 0.6 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 12.07 \\
 \times 0.7 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 89.77 \\
 \times 0.008 \\
 \hline
 \end{array}$$