

Multiplying Decimals

Begin by ignoring the decimals and multiply the numbers. After multiplying, place the decimal point such that the number of decimal digits is equal to the total number of decimal digits of the numbers multiplied.

Example 2

Multiply the following.

a) 4.53×6 (notice the 2 decimal digits)

$$\begin{array}{r} 4.53 \\ \times 6 \\ \hline 27.18 \end{array}$$

b) 12.8×0.14 (3 decimal digits in total)

$$\begin{array}{r} 12.8 \\ \times 0.14 \\ \hline 1.792 \end{array}$$

c) -3.75×1.1

$$\begin{array}{r} -3.75 \\ \times 1.1 \\ \hline -4.125 \end{array}$$

d) 14×0.02

$$\begin{array}{r} 14 \\ \times 0.02 \\ \hline 0.280 \end{array}$$

e) 0.17×-0.5

$$\begin{array}{r} 0.17 \\ \times -0.5 \\ \hline -0.085 \end{array}$$

f) 0.05×0.4

$$\begin{array}{r} 0.05 \\ \times 0.4 \\ \hline 0.020 \end{array}$$