

2.5 Multiplying Decimals

EQ: How do you multiply decimals?

★ You don't need to line up the decimal point when multiplying

★ Make sure to use a zero or "x" as a place holder

★ Make sure to count the decimal places and match them with your answer

Example 1: 6×3.91

$$\begin{array}{r} 3.912 \\ \times \quad 6 \\ \hline 23.46 \\ = 23.46 \end{array}$$

← It may be helpful to put the number with more digits on top

Estimate
 $6 \times 4 = 24$

Example 2: 3×0.016

$$\begin{array}{r} 0.016 \\ \times \quad 3 \\ \hline 0.048 \\ = 0.048 \end{array}$$

Estimate
 $3 \times 0 = 0$

Example 3: 4.8×7.2

$$\begin{array}{r} 4.8 \\ \times 7.2 \\ \hline 96 \\ 336 \times \\ \hline 34.56 \\ = 34.56 \end{array}$$

Estimate
 $7 \times 5 = 35$