Lesson 3.8 Multiplying Decimals Using Rules

When multiplying decimals, count the number of decimal places in each factor to figure out the placement of the decimal point in the product.

$$\frac{3}{\times 5}$$

$$0.3 \times 5$$

$$\begin{array}{c}
0.3 \\
\times 0.5 \\
\hline
0.15
\end{array}$$

$$0.3 \times 0.05 \over 0.015$$

0 decimal places

I decimal place 2 decimal places

3 decimal places

How many decimal places will be in the product of the following multiplication problems?

$$6.3 \times 9.8$$

2.

$$9.35 \times 8.43$$

$$2.8 \times 7.46$$

Multiply to find the answer. Underline the decimal places in the factors and in the product.