

## Multiplying Special Decimals

Multiply the following decimals:

$$1) \begin{array}{r} \mathbf{26.795} \\ \times \mathbf{100} \\ \hline \end{array}$$

$$2) \begin{array}{r} \mathbf{26.795} \\ \times \mathbf{10} \\ \hline \end{array}$$

$$3) \begin{array}{r} \mathbf{26.795} \\ \times \mathbf{1000} \\ \hline \end{array}$$

$$4) \begin{array}{r} \mathbf{26.795} \\ \times \mathbf{0.1} \\ \hline \end{array}$$

$$5) \begin{array}{r} \mathbf{26.795} \\ \times \mathbf{0.01} \\ \hline \end{array}$$

$$6) \begin{array}{r} \mathbf{26.795} \\ \times \mathbf{0.001} \\ \hline \end{array}$$

Multiplying a number by a *power of ten* (10, 100, 1000, 0.1, 0.01, 0.001, etc.) does not change the digits in the result. All it does is move the decimal place.

Does multiplying by 10, 100, 1000, etc. make the result bigger or smaller than the original number? Which way does the decimal point move? \_\_\_\_\_

Does multiplying by 0.1, 0.01, 0.001, etc. make the result bigger or smaller than the original number? Which way does the decimal point move? \_\_\_\_\_