Example:

$32.6 \times 2.8 =$

Step 1: Round each number to the leading digit

$30 \times 3 = 90$

Step 2: Multiply the numbers ignoring the decimals

$326 \times 28 =$

$$\begin{array}{r} 326 \\ \times\ 28 \\ \hline 2608 \\ +\ 6520 \\ \hline 9128 \end{array}$$

Step 3: Place the decimal so that your product is closest to your estimate:

.9128 or 9.128 or 91.28 or 912.8 or 9128

91.28 is closest to 90

Try These:

1) $5.96 \times 4.2 =$ Round to Estimate:

Multiply without the decimal:

Place the decimal so that your product is closest to your estimate:

2) $9.1 \times 79.3 =$ Round to Estimate:

Multiply without the decimal:

Place the decimal so that your product is closest to your estimate:

3) $793.2 \times 6.2 =$ Round to Estimate:

Multiply without the decimal:

Place the decimal so that your product is closest to your estimate:

4) $72.11 \times 89.2 =$ Round to Estimate:

Multiply without the decimal:

Place the decimal so that your product is closest to your estimate:

Find the product of each. Use estimation to determine the location of the decimal in your final answer. Show all work.

5) $5.3 \times 0.98 =$

6) $21.2 \times 88 =$

7) $1.9 \times 211.1 =$

8) $101.3 \times 9.9 =$

9) $1.983 \times 2.2 =$

10) $0.898 \times 89 =$

Find another way to determine the decimal location without estimating? Explain

_____

_____