### 2.3 Multiply with Decimals

Multiplying with decimals is similar to multiplying with whole numbers.

Follow these steps to multiply a decimal by a whole number or another decimal:

1. Multiply as you would with whole numbers.
2. Count the total number of decimal places in both factors.
3. Count the same number of places from the right to left and insert a decimal point in the product.

Example: Write the decimal point in each product. Use zeros as placeholders.
a.) $5.9 \times 3=173$
b.) $0.6 \times 0.4=.24$ 17.7
0.24
c.) $6.87 \times 2=1374$
d.) $1.01 \times 9=9.09$
12.74
9.09
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Example: **PROBLEM SOLVING**
m.) A botanist finds that a certain plant grows about $Q 5$ inches each month. How many inches do you predict the plant will grow in 15 months?


$$
\begin{array}{r}
2 \\
15 \\
\times \quad 5 \\
\hline 7.5 \\
\hline
\end{array}
$$

n.) Sadie bikes 37.6 km. Surya bikes 0.4 times as far. How much farther than Surya does Sadie bike?

$$
37.6 \times 0.4
$$

15.04 lem


