

# Multiplying Decimals

## I. Steps

ex:  $4.3 \cdot 0.25$

1) # w/ the most digits on top

$$\begin{array}{r}
 \begin{array}{r}
 \overset{1}{0} \overset{2}{.} \overset{3}{2} \overset{4}{5} \\
 \times \\
 \hline
 1075 \\
 + \\
 1000 \\
 \hline
 1.075
 \end{array}
 \end{array}$$

How many #'s. are behind the decimal points?

2) Determine placement of decimal.

ex:  $-6.35 \times 2.7$

Annotations:   
 - "Neg." above the first minus sign   
 - "Decimals" with arrows pointing to the decimal points in both numbers   
 - "mplt. Pts." above the decimal point in 2.7   
 - "31" above the 3 in the second number   
 - "21" above the 2 in the second number   
 - "11" above the 1 in the second number

$$\begin{array}{r}
 -6.35 \\
 \times 2.7 \\
 \hline
 4445 \\
 +12700 \\
 \hline
 -17.145
 \end{array}$$

3) Positive? or Negative?  
Same Signs? or Diff. Signs?

ex:  $-7.2 \times 5$

$\begin{array}{r} -7.2 \\ \times 5 \\ \hline -36.0 \end{array}$

↓ mult  
●

⏟  
- 36.0

$\begin{array}{r} 7.5 \\ \times 5 \\ \hline 35 \end{array}$

ex: In a raft traveling downstream at a rate of 4.3 m.p.h. How far will you travel in 2.5 hours?

$$\begin{array}{r}
 \times 4.3 \\
 \times 2.5 \\
 \hline
 215 \\
 860 \\
 \hline
 10.75
 \end{array}
 = \frac{\times 4}{2} \div 8$$

10.75 miles

ex: Carne Asada costs

\$ 3.77 per pound.

How much will it cost  
to purchase 4 pounds?

\$15.08