

Name _____

Date _____

Use estimation and place value reasoning to find the unknown product. Explain how you know.

1. If $647 \times 63 = 40,761$ then $6.47 \times 63 = \underline{407.61}$

$$\begin{array}{r} 6.47 \xrightarrow{\times 100} 647 \\ \times 63 \\ \hline \end{array} \quad \begin{array}{r} 647 \\ \times 63 \\ \hline 40,761 \end{array}$$

$40,761 \div 100 \rightarrow 407.61$

$$6.47 \times 63 \approx 6 \times 63 = 378$$

407.61 is close to 378 , so the answer is reasonable.

2. Solve using the standard algorithm.

a. 6.13×14

b. 104.35×34

$$\begin{array}{r} 6.13 \xrightarrow{\times 100} 613 \\ \times 14 \\ \hline 2452 \\ + 6130 \\ \hline 8582 \end{array} \xrightarrow{\div 100} 85.82$$

$$\begin{array}{r} 104.35 \xrightarrow{\times 100} 10435 \\ \times 34 \\ \hline 41740 \\ + 313650 \\ \hline 354790 \end{array} \xrightarrow{\div 100} 3547.90$$