

$$(-10) - (+9)$$

$$(-10) + (-9)$$

$$\textcircled{-19}$$

Two Digit by Two Digit Multiplication

Step 1

$$\begin{array}{r} 25 \\ \times 39 \\ \hline 5 \end{array}$$

Step 4

$$\begin{array}{r} 25 \\ \times 39 \\ \hline 225 \\ 50 \end{array}$$

Step 2

$$\begin{array}{r} 25 \\ \times 39 \\ \hline 225 \end{array}$$

Step 5

$$\begin{array}{r} 25 \\ \times 39 \\ \hline 225 \\ 750 \end{array}$$

Step 3

$$\begin{array}{r} 25 \\ \times 39 \\ \hline 225 \\ 0 \end{array}$$

Step 6

$$\begin{array}{r} 25 \\ \times 39 \\ \hline 225 \\ + 750 \\ \hline 975 \end{array}$$

Warm-Up

1) $\begin{array}{r} 2 \\ 19 \\ \times 18 \\ \hline 157 \\ + 190 \\ \hline 247 \end{array}$

2) $\begin{array}{r} 5 \\ 47 \\ \times 85 \\ \hline 235 \\ + 3760 \\ \hline 3995 \end{array}$

3) $\begin{array}{r} 1 \\ 62 \\ \times 97 \\ \hline 424 \\ 5480 \\ \hline 5904 \end{array}$

1) 5 6 2
 x 3 1

2) 7 6 4
 x 3 9

3) 9 8 2
 x 6 2

Multiplying Decimals

TH
NKS

$$2.56 \times 0.2$$

no. of decimal places

2 . 5 6 → ②

× 0 . 2 → ①

0 . 5 1 2 → ③

1 Ignore the decimal point and multiply

2 Count from the right and put the point

The diagram illustrates the steps for multiplying decimals. It shows the numbers 2.56 and 0.2 aligned vertically with a multiplication sign. The decimal points are ignored, and the numbers are treated as 256 and 2. The product is 512. The decimal point is then placed in the product based on the total number of decimal places in the original numbers (2 + 1 = 3), resulting in 0.512. Arrows and numbered steps explain the process.

You multiply decimals the same way you multiply whole, but you have to remember to put the decimal in the proper position in your answer.

Try the following:

(a) 2.46×0.58

(b) 3.9×1.68

② line up the

$$\begin{array}{r}
 \textcircled{2} \quad 2.46 \quad \textcircled{2} \\
 \times \textcircled{2} \quad 0.58 \quad \textcircled{2} \\
 \hline
 1968 \\
 12300 \\
 00000 \\
 \hline
 1.4268
 \end{array}$$

4

$$\begin{array}{r}
 2.48 \times 3.9 \\
 \textcircled{2} \quad 1.68 \quad \textcircled{2} \\
 \times \textcircled{1} \quad 3.9 \quad \textcircled{1} \\
 \hline
 1512 \\
 + 5040 \\
 \hline
 6.552
 \end{array}$$

You multiply decimals the same way you multiply whole, but you have to remember to put the decimal in the proper position in your answer.

Try the following:

(a) 2.46×0.58

(b) 3.9×1.68

More Practice:

a) $\overset{1}{5}.\overset{2}{\underline{6}\underline{3}}$

$$\begin{array}{r} \overset{1}{1} \overset{2}{6} \overset{3}{8} \overset{4}{9} \\ + \overset{1}{1} \overset{2}{1} \overset{3}{2} \overset{4}{6} \overset{5}{0} \\ \hline 12949 \end{array}$$

in

Homework ~~~

Worksheet :)

