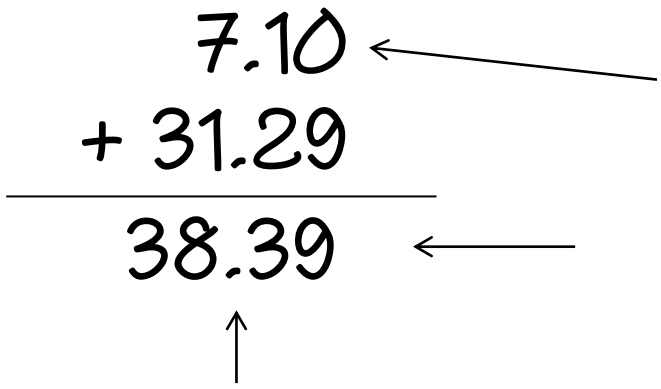
Decimals

Rules for ADDING & SUBTRACTING Decimals:

$$\begin{array}{r} 7.10 \\ +\ 31.29 \\ \hline 38.39 \end{array}$$



Example 5:	Example 6:
$12 \div 1.6$	$12.95 \div 1.25$

÷ Dividing ÷

Rules for MULTIPLYING Decimals:

$$
\begin{array}{r}
3.24 \leftarrow \\
\times \quad 8.5 \leftarrow \\
\hline
1620 \\
+\ 25920 \\
\hline
27.540 \leftarrow
\end{array}
$$

Example 3:	Example 4:
1.25 x 23	4.31 x 9.5

× Multiplying ×

Rules for DIVIDING Decimals:

$4.32 \div 3.6 = 43.2 \div 36$

$$
\begin{array}{r}
1.2 \\
36\overline{)\,43.2} \\
-36 \\
\hline
72 \\
-72 \\
\hline
0
\end{array}
$$

Example 1:	Example 2:
$7 + 5.314$	$15.6 - 6.39$

+ Adding & Subtracting -

Decimals

Rules for ADDING & SUBTRACTING Decimals:

$$\begin{array}{r} 7.10 \\ +\ 31.29 \\ \hline 38.39 \end{array}$$

Use '0' as a place holder so that both numbers have the same number of digits to the right of the decimal.

Add each column.

*Line up the decimal points!!!

Example 5:

$12 \div 1.6 = 120 \div 16$

$$\begin{array}{r} 7.5 \\ 16\overline{)\,120.0} \\ -112 \\ \hline 80 \\ -\ 80 \\ \hline 0 \end{array}$$

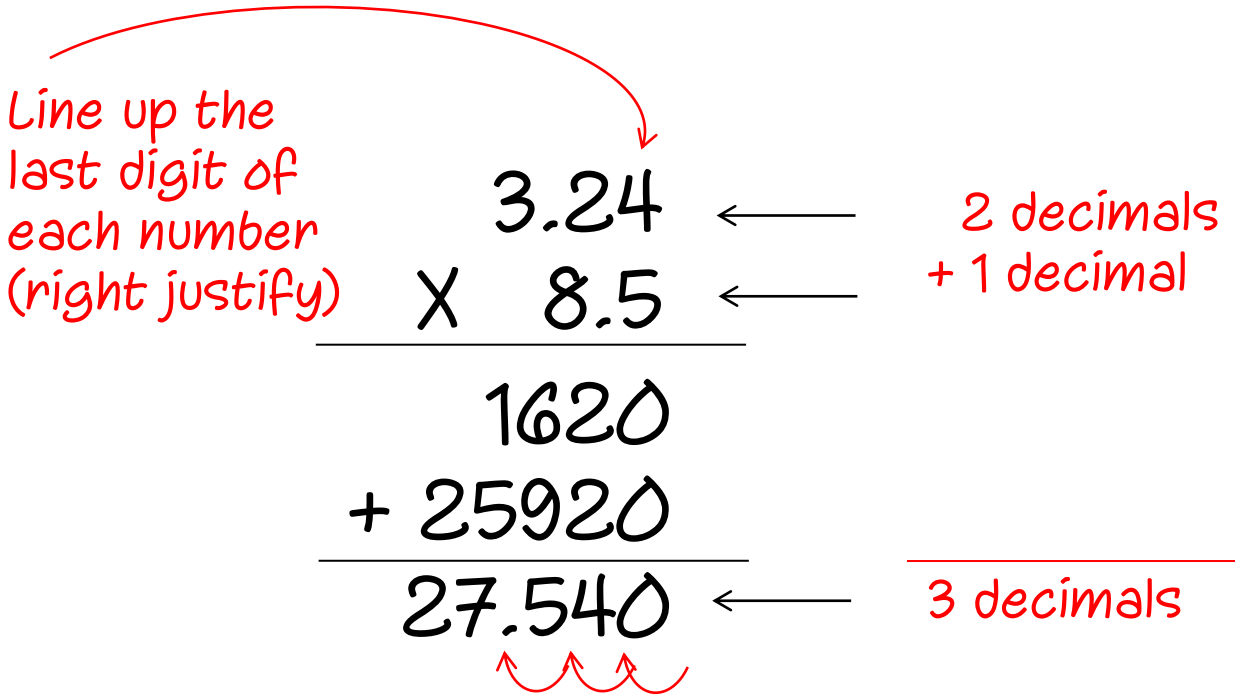
Example 6:

$12.95 \div 1.25 = 1295 \div 125$

$$\begin{array}{r} 10.36 \\ 125\overline{)\,1295.00} \\ -125 \\ \hline 45 \\ -\ 0 \\ \hline 450 \\ -375 \\ \hline 750 \\ -750 \\ \hline 0 \end{array}$$

÷ Dividing ÷

Rules for MULTIPLYING Decimals:



Example 3:

1.25 x 23

1.25 — 2 decimals
X 23
3 75
+ 2500
28.75 — 2 decimal places

Example 4:

4.31 x 9.5

4.31 — 3 decimals
X 9.5
2155
+ 38790
40.945 — 3 decimal places

× Multiplying ×

Rules for DIVIDING Decimals:

$4.32 \div 3.6 = 43.2 \div 36$

$$\begin{array}{r} 1.2 \\ 36\overline{)\,43.2} \\ -36 \\ \hline 72 \\ -72 \\ \hline 0 \end{array}$$

Don't forget- The divisor must always be an integer!

Make the divisor an integer by multiplying both numbers by a power of 10. (10, 100, 1000, etc.)

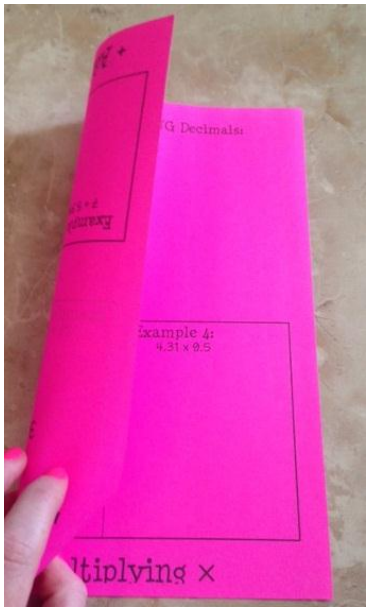
Example 1:	Example 2:
$7 + 5.314$	$15.6 - 6.39$
$\begin{array}{r} 7.000 \\ +\ 5.314 \\ \hline 12.314 \end{array}$	$\begin{array}{r} {\scriptstyle 1\ \ 5\ 1} \\ 15.\cancel{6}0 \\ -\ \ 6.39 \\ \hline 9.21 \end{array}$

+ Adding & Subtracting -

Directions for putting together the DECIMAL foldable!

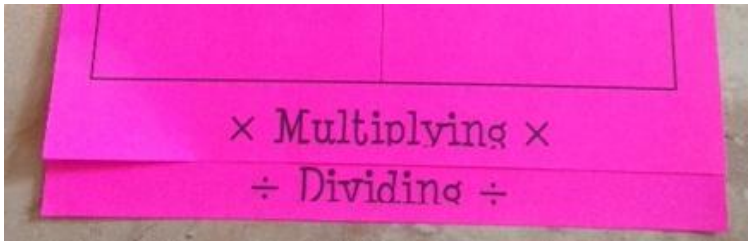
Step1: Print pages 1 & 2 front to back as shown:

Print pages 3 & 4 front to back as shown:



Step 2: Place the page that says "Dividing" (at the very bottom) face up on your desk.

Step 3: Place the page that says "Multiplying" (at the very bottom) face up on top of the other page, so that you can just see the bottom of the original page, as shown:



Step 4: Fold over both pages so that "Adding & Subtracting " is just above where is says "Multiplying" and the "Decimals" title is at the very top.

Step 4: Staple and you're done!