

# L1-2 Multiply/Divide Decimals pg. 5

A) x

ex)  $12.5 \times 4 = ?$

estimate  $\begin{array}{r} 13 \\ \times 4 \\ \hline 52 \end{array}$

$\begin{array}{r} 12.5 \\ \times 4 \\ \hline 500. \end{array}$  → one # right

← move one left

= 50 😊

Step 1: Align to right vertically.

2: multiply

3: Adjust decimals  
↳ count # of places right of decimal then move left

B) ÷

ex)  $1.8 \div 0.045 = ?$  →  $\begin{array}{r} 1.8 \\ 0.045 \end{array}$

In                  out                  in                  out

$\begin{array}{r} 0.045 \overline{) 1.800} \\ \underline{0.000} \\ 1.800 \\ \underline{1.800} \\ 000 \end{array}$

← add zeros

← dividend

divisor

$\begin{array}{r} 40 \\ 45 \overline{) 1800} \\ \underline{1800} \\ 00 \\ \underline{00} \\ 0 \end{array}$

Step 1: Get rid of any decimal places in divisor & make into whole #.

2: Adjust & move that many places in dividend

3: rewrite

**L1-3** +/ - / x / ÷ Fractions Pg. 7

A) +/ - w/ same denominator

$$\text{ex) } 10\frac{3}{4} + 3\frac{2}{4} = \begin{array}{r} 10\frac{3}{4} \\ + 3\frac{2}{4} \\ \hline 13\frac{5}{4} \end{array} \quad 3+2=5$$

Step 1: Add whole # & numerators

2: keep denominator same

↑ improper so ÷

$$\begin{array}{r} 5\frac{5}{4} \\ \phantom{5}\frac{5}{4} \\ - \phantom{5}\frac{4}{4} \\ \hline \phantom{5}\frac{1}{4} \end{array}$$

Then, add to whole #

$$\begin{array}{r} 13 \\ + 1\frac{1}{4} \\ \hline 14\frac{1}{4} \end{array}$$

B) +/ - different denominator

$$\text{ex) } 11\frac{1}{4} = \frac{\quad}{16}$$

$$- 2\frac{1}{16} = \frac{\quad}{16}$$

↑ LCM

**multiples**

	x1	x2	x3	x4
4:	4	8	12	16
16:	16			

least common multiple: **16**  
(LCM)

Step 1: Find a common denominator

2: x to get LCM

3: Then follow steps for same denominator

$$\begin{array}{r} 11\frac{1}{4} \xrightarrow{\begin{array}{l} \times 4 \\ = \\ \times 4 \end{array}} \frac{4}{16} \\ - 2\frac{1}{16} \xrightarrow{\begin{array}{l} \times 1 \\ = \\ \times 1 \end{array}} \frac{1}{16} \\ \hline 9\frac{3}{16} \end{array} \quad \begin{array}{r} 4-1 \\ \hline 3 \\ \frac{3}{16} \end{array}$$

←

$$= \boxed{9\frac{3}{16}}$$