

1.3 Multiplying & Dividing Decimals

-When multiplying, Do Not line up decimals.

Ex) 2.43×2.5

$$\begin{array}{r}
 2.43 \\
 \times 2.5 \\
 \hline
 1215 \\
 +4860 \leftarrow \text{Place holder} \\
 \hline
 6075
 \end{array}$$

3 decimal places

Answer = 6.075

Ex) 11.4×3.6

$$\begin{array}{r}
 11.4 \\
 \times 3.6 \\
 \hline
 684 \\
 +3420 \leftarrow \text{Place holder} \\
 \hline
 4104
 \end{array}$$

2 decimal places

Answer = 41.04

-When dividing, change the number you are dividing by into a whole # and change the number that is being divided accordingly.

Ex) $12.6 \div 2.1$

$2.1 \overline{) 12.6}$ → $21 \overline{) 126}$
 $\quad -126$
 $\quad \quad 0$

so move one time here
 move one time here

Answer = 6

Ex) $17.172 \div 3.24$

$3.24 \overline{) 17.172}$ → $324 \overline{) 1717.2}$
 $\quad -1620$
 $\quad \quad 972$
 $\quad \quad -972$
 $\quad \quad \quad 0$

so move 2 times
 move 2 times here

Answer = 5.3