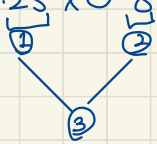
Decimals

→ Multiplication of Decimals

① $0.3 \times 0.2 \rightarrow 0.06$

② $0.25 \times 0.8 = 0.200$



$= 0.2$

③ $0.5 \times 3.25 = 1.625$

④ $0.65 \times 25 = 16.25$

⑤ $3.5 \times 0.5 = 1.75$

⑥ $0.16 \times 0.8 = 0.128$

⑦ $1.25 \times 4 = 5$

① First multiply the numbers irrespective of decimal place.
② Count the decimal places in the equation
③ That is the amount of decimal places you should have

→ Addition and Subtraction (Allign the decimal)

① $3.25 + 6.8 \rightarrow$

$$\begin{array}{r} 3.25 \\ 6.8 \\ \hline 10.05 \end{array}$$

② $15.3 + 527.64$

$$\begin{array}{r} {}^{1}5\,27.64 \\ +\ \ 15.3 \\ \hline 542.94 \end{array}$$

③ $72.8 - 5.47 \longrightarrow$

$$\begin{array}{r} 72.\overset{7}{\cancel{8}}\overset{1}{0} \\ -\ 5.47 \\ \hline 67.33 \end{array}$$

→ Fractions to Decimals

$\frac{1}{4} = 0.25$

R.W

$$\begin{array}{r|l} & 0.25 \\ \hline 4 & 1 \\ & \downarrow \\ & 10 \\ & -\ 8 \\ \hline & 20 \\ & -\ 20 \\ \hline & 0 \end{array}$$

② $\frac{1}{8} = 0.125$

$$\begin{array}{r|l} & 0.125 \\ \hline 8 & 10 \\ & -\ 1 \\ \hline & 20 \\ & -\ 16 \\ \hline & 40 \\ & -\ 40 \\ \hline & 0 \end{array}$$

→ Decimal to Fractions

① $\frac{0.25 \times 100}{100} \Rightarrow \frac{25}{100} \Rightarrow \boxed{\frac{1}{4}}$

① Multiply the decimal with the number of non zero values after the decimal
② Then write the same number in the denominator and simplify

② $\sqrt{1.44} = \sqrt{\frac{144}{100}} = \frac{12}{10} = \boxed{\frac{6}{5}}$

③ $\frac{1.28}{0.2} \times \frac{100}{100} \Rightarrow \frac{32}{\cancel{128}\ 5} \Rightarrow \boxed{\frac{32}{5}}$