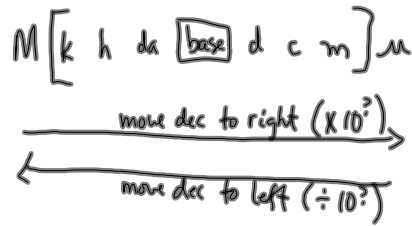


Metric Conversions.



$75 \text{ kg} = 7500000 \text{ mg}$
5 dec places

$152 \text{ mm} = 0.000152 \text{ Mm}$
3 3 3

Significant Digits

$709 \text{ m} \rightarrow 3 \text{ sd}$

$0.00567 \text{ g} \rightarrow 3 \text{ sd}$

$42.0 \text{ g} \rightarrow 3 \text{ sd}$

$8700 \text{ m} \rightarrow 2 \text{ sd}$

$8.700 \times 10^3 \text{ m} \rightarrow 4 \text{ sd}$

Calculations.

Adding + Subtracting \Rightarrow Place Value (least precise)

$52.4 \text{ g} + 0.0078 \text{ g} + 1.92 \text{ g}$
round to this place value
least precise
 $= 54.3278 \text{ g}$

$\approx 54.3 \text{ g}$

$52.78 \text{ g} - 1.0085 \text{ g} = 51.7715 \text{ g}$
Same place value

$\approx 51.77 \text{ g}$

Multiplying + Dividing \rightarrow least # of s.d.s.

$52.5 \text{ m} \times 1.2 \text{ m} = 63 \text{ m}^2$
3sd *2sd* *2sd*

$78.9 \text{ km} \div 4.1 \text{ h} = 19.2439... \frac{\text{km}}{\text{h}}$
3sd *2sd*
 $\approx 19 \frac{\text{km}}{\text{h}}$

$\frac{\text{C}}{\text{J}}$
 $\frac{\text{mL}}{\text{mL}}$