

# Day 2 - Scientific Notation Addition & subtraction Key

1)  $(7.4 \times 10^2) + (2.735 \times 10^6)$

$$\begin{array}{r} 7.40 \\ + 2.735000 \\ \hline \end{array} = \boxed{2735740 \text{ or } 2.73574 \times 10^6}$$

2)  $(2 \times 10^3) - (1.9 \times 10^2)$

$$\begin{array}{r} 2000 \\ - 190 \\ \hline \end{array} = 1810 \text{ or } \boxed{1.81 \times 10^3}$$

3)  $(5.2 \times 10^7) + (3.01 \times 10^6)$

$$\begin{array}{r} 5.2000000 \\ + 3.0100000 \\ \hline \end{array} = \boxed{55010000 \text{ or } 5.501 \times 10^7}$$

4)  $(2.005 \times 10^5) - (8.664 \times 10^4)$

$$\begin{array}{r} 2.00500 \\ - 8.6640 \\ \hline \end{array} = \boxed{113860 \text{ or } 1.1386 \times 10^5}$$

5)  $(6.2 \times 10^5) + (9.7 \times 10^6)$

$$\begin{array}{r} 6.200000 \\ + 9.700000 \\ \hline \end{array} = \boxed{10320000 \text{ or } 1.032 \times 10^7}$$

6)  $2.\overline{2} \times \frac{2}{3} = 2\frac{2}{9} \times \frac{2}{3}$

$$\frac{20}{9} \times \frac{2}{3} = \boxed{\frac{40}{27}}$$

7)  $1.\overline{06} = \frac{06}{99} = \boxed{1\frac{6}{99}}$

8)  $7.\overline{23} \times \frac{1}{2} = 7\frac{23}{99} \times \frac{1}{2}$

$$= \frac{716}{99} \times \frac{1}{2} = \frac{716 \div 2}{198 \div 2} = \boxed{\frac{358}{99}}$$

9)  $\frac{1}{3} \div 0.\overline{3} = \frac{1}{3} \div \frac{3}{9} = \frac{1}{3} \cdot \frac{9}{3} = \frac{27}{9} = \boxed{3}$

10) Change to Fraction.

$$2.\overline{18} = 2.\overline{18} \quad \text{Multiply by 10}$$

$$21.\overline{8}$$

$$21\frac{8}{9}$$

Divide by 10

$$21\frac{8}{9} \div \frac{10}{1}$$

$$\frac{197}{9} \div \frac{10}{1}$$

$$\frac{197}{9} \cdot \frac{1}{10} = \boxed{\frac{197}{90}}$$