

V B O D M A S.

V  $\rightarrow$  vinculum  $\Rightarrow$  (Bar) ex.  $\overline{4+6}$

B  $\rightarrow$  Bracket  $\Rightarrow$  ex.  $[\{(\overset{1}{\phantom{0}})\overset{2}{\phantom{0}}\}\overset{3}{\phantom{0}}]$

O  $\rightarrow$  of  $\Rightarrow$  ex.  $3 \text{ of } 3 = 3 \div 3 = 1$

D  $\rightarrow$  Division  $\Rightarrow$   $(\div)$   $(/)$

M  $\rightarrow$  multiplication  $\Rightarrow$   $(*)$   $(\cdot)$   $(\times)$

A  $\rightarrow$  Addition  $\Rightarrow$   $(+)$

S  $\rightarrow$  subtraction  $\Rightarrow$   $(-)$

Ex:  $36 \div 9 \times 4$

✓ 1.  $4 \times 4 \Rightarrow 16$  ✓

2.  $36 \div 36 \Rightarrow 1$  ✗

Ex:  $98 \div 7 \text{ of } 11$

$\Rightarrow 98 \div (7 \times 11)$

$\Rightarrow 98 \div 98 \Rightarrow 1 //$

Ex: simplify  $78 - [25 - \{16 - (5 - \overline{4 - 1})\}]$

$$\Rightarrow 74 - [24 - \{16 \cdot (5 - 3)\}]$$

$$\Rightarrow 74 - [24 - \{16 - 2\}]$$

$$\Rightarrow 74 - [24 - 14] \Rightarrow 74 - 10 \Rightarrow 64 //$$

$$\text{ex. } 15 - (-5) \{4 - \overline{7-3}\} \div [3 \{5 + (-3) * (-6)\}]$$

$$\Rightarrow 15 - (-5) \{4 - 4\} \div [3 \{5 + 18\}]$$

$$\Rightarrow 15 - (-5) \times 0 \div [3 * 23]$$

$$\Rightarrow 15 - (-5) \times 0 \div 69$$

$$\Rightarrow 15 - (-5) \times 0 \Rightarrow 15 - 0 \Rightarrow 15 //$$

$$\text{ex. } 3.\overline{5} + 5.\overline{4} \quad \left\{ \begin{array}{l} 3 + \frac{5}{9} + 5 \cdot \frac{4}{9} \Rightarrow \frac{32}{9} + \frac{20}{9} = \frac{52}{9} \div 3. \end{array} \right.$$

$$\underline{3.5555\dots} + \underline{5.4444\dots}$$

$$\text{ex. } 0.\overline{6}$$

$$= 0.6666\dots$$

$$0.\overline{6} = \frac{6}{9} = \frac{2}{3}$$

$$\text{ex. } 1.\overline{09}$$

$$= 1 + \frac{9}{99} = 1 + \frac{1}{11} = \frac{12}{11} //$$

$$\text{ex. } 1.\overline{57} \Rightarrow 1 + \frac{57 - 5}{90} = 1 + \frac{52}{90}$$

$$= \boxed{1 \frac{26}{45}}$$