

REMEMBERING LONG DIVISION

$$50 \div 8$$

$$\frac{50}{8}$$

$$8 \overline{)50}$$

WATCH OUT

3 DIFFERENT ANSWERS:

D ✓✓✓
M ✓✓
S ✓✓
B ✓✓

$$\begin{array}{r} 6 R.2 \\ 8 \overline{)50} \\ -48 \\ \hline 2 \end{array}$$

$$\boxed{6 R.2}$$

$$\begin{array}{r} 6 \\ 8 \overline{)50} \\ -48 \\ \hline 2 \end{array}$$

$$6 \frac{2}{8} = \boxed{6 \frac{1}{4}}$$

$$\begin{array}{r} 6.25 \\ 8 \overline{)50.00} \\ -48 \downarrow \\ \hline 20 \downarrow \\ -16 \downarrow \\ \hline 40 \\ -40 \\ \hline \emptyset \end{array}$$

EX:) $358 \div 9$

$$\begin{array}{r} 39.77 \\ 9 \overline{)358.00} \\ -27 \downarrow \\ \hline 88 \downarrow \\ -81 \downarrow \\ \hline 70 \downarrow \\ -63 \downarrow \\ \hline 70 \\ -63 \\ \hline 7 \end{array}$$

$$\boxed{39.\overline{7}}$$

EX:) $2490 \div 6$

$$\begin{array}{r} 415.000 \\ 6 \overline{)2490.000} \\ -24 \downarrow \\ \hline 09 \downarrow \\ -6 \downarrow \\ \hline 30 \downarrow \\ -30 \downarrow \\ \hline 00 \\ \dots \end{array}$$

$$\boxed{415} = 415.\overline{0}$$

ALL DECIMALS ARE REPEATING

BUT: WHEN 0 IS THE # THAT REPEATS, WE CALL IT A "TERMINATING DECIMAL"

B/C IT APPEARS TO STOP.

040:)

$$15386 \div 2$$

$$\begin{array}{r} \boxed{7693} \\ 2 \overline{)15386} \end{array}$$

$$\begin{array}{r} -14 \downarrow \\ 13 \\ -12 \downarrow \\ 18 \\ -18 \downarrow \\ 06 \\ -6 \\ \hline \emptyset \end{array}$$

$$\frac{83.2}{0.4} \times \frac{10}{10}$$

Ex:) $83.2 \div 0.4$

$$0.4 \overline{)83.2}$$

$$\begin{array}{r} 208 \\ 4 \overline{)832} \\ -8 \downarrow \\ 03 \\ -0 \downarrow \\ 32 \\ -32 \\ \hline \emptyset \end{array}$$

Ex:)

$$251.8 \div 9$$

$$\begin{array}{r} 27.977 \\ 9 \overline{)251.800} \end{array}$$

$$\begin{array}{r} -18 \downarrow \\ 71 \\ -63 \downarrow \\ 88 \\ -81 \downarrow \\ 70 \\ -63 \downarrow \\ 70 \\ -63 \\ \hline 7 \end{array}$$

$\boxed{27.97}$

040:) $15 \div 0.8$

$$0.8 \overline{)15.0}$$

$$\begin{array}{r} 18.75 \\ 8 \overline{)150.00} \\ -8 \downarrow \\ 70 \\ -64 \downarrow \\ 60 \\ -56 \downarrow \\ 40 \\ -40 \\ \hline \emptyset \end{array}$$