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LONG DIVISION

$$10 \div 6 = \frac{10}{6}$$

$\frac{\text{TOP}}{\text{BOTTOM}} \rightarrow \text{BOTTOM} \overline{) \text{TOP}}$

$$\begin{array}{r} 1.6666 \\ 6 \overline{) 10.00} \\ \underline{-6} \\ 40 \\ \underline{-36} \\ 40 \\ \underline{-36} \\ 40 \end{array} = 1.\overline{6}$$

REPEATING
DECIMAL
(GOES ON FOREVERRRRR...)

$$\frac{3}{8} = 0.375$$

$$\begin{array}{r} 0.375 \\ 8 \overline{) 3.000} \\ \underline{24} \\ 60 \\ \underline{56} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

TERMINATING
DECIMAL
(IT ENDS)

$$\frac{3}{4} = 0.75$$

$$\begin{array}{r} 0.75 \\ 4 \overline{) 3.0} \\ \underline{28} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

DECIMAL
TO FRACTION

$$-0.32 = -\frac{32}{100} = -\frac{16}{50} = -\frac{8}{25}$$

$$8: \begin{array}{l} 1 \times 8 \\ 2 \times 4 \end{array}$$

$$25: \begin{array}{l} 5 \times 5 \\ 25 \times 1 \end{array}$$

$$\frac{4}{12} \div \frac{4}{4} = \frac{1}{3}$$

$$4: \begin{array}{l} 2 \times 2 \\ 1 \times 4 \end{array}$$

$$12: \begin{array}{l} 12 \times 1 \\ 6 \times 2 \\ 3 \times 4 \end{array}$$