

(2)

$$\frac{1}{7} = 0.\overline{142857}$$

$$\begin{array}{r} .142857 \\ 7 \overline{) 10} \\ \underline{30} \\ 28 \\ \underline{20} \\ 14 \\ \underline{60} \\ 56 \\ \underline{40} \\ 35 \\ \underline{50} \\ 49 \\ \underline{1} \end{array}$$

$$\frac{2}{7} = 0.\overline{285714}$$

[we get remainder 2 (numerator of $\frac{2}{7}$) in step 3, so we begin with third digit in the quotient

$$\left(\text{of } \frac{1}{7}\right) \quad 0.\overline{142857}$$

1 2 3 4 5 6

$$\therefore \frac{2}{7} = 0.\overline{285714}$$

and complete all digits in order.]

Similarly

$$\frac{3}{7} = 0.\overline{428571}, \quad \frac{4}{7} = 0.\overline{571428}, \quad \frac{5}{7} = 0.\overline{714285}, \quad \frac{6}{7} = 0.\overline{857142}$$