

$$1 \text{ (i)} \quad \frac{36}{100}$$

$$= 0.36 \quad \text{Terminating}$$

$$1 \text{ (ii)} \quad \frac{1}{11}$$

$$= 0.\overline{09}$$

$$\begin{array}{r} .0909 \\ 11 \overline{) 100} \\ \underline{99} \\ 100 \\ \underline{99} \\ 1 \end{array}$$

decimal representation
non terminating repeating

$$1 \text{ (iii)} \quad 4\frac{1}{8}$$

$$= 4.125$$

Terminating

$$\begin{array}{r} .125 \\ 8 \overline{) 10} \\ \underline{8} \\ 20 \\ \underline{16} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

$$1 \text{ (iv)} \quad \frac{3}{13}$$

$$= 0.\overline{230769}$$

non terminating
repeating

$$\begin{array}{r} .230769 \\ 13 \overline{) 30} \\ \underline{26} \\ 40 \\ \underline{39} \\ 100 \\ \underline{91} \\ 90 \\ \underline{78} \\ 120 \\ \underline{117} \\ 3 \end{array}$$