

$$10(v) \frac{15^3}{1600} = \frac{3}{2^6 \times 5}$$

∴ Prime factorisation of the denominator is of the form $2^m 5^n$ where m, n are whole numbers.

∴ Decimal representation of given number is terminating

$$10(v) \frac{29}{343} = \frac{29}{7^3}$$

∴ Prime factorisation of the denominator is not of the form $2^m 5^n$ where m, n are whole numbers.

∴ Decimal representation of given number is non terminating repeating

$$10(vi) \frac{23}{2^3 \times 5^2}$$

∴ Prime factorisation of the denominator is of the form $2^m 5^n$ where m, n are whole numbers.

∴ Decimal representation of given number is terminating

$$10(vii) \frac{129}{2^2 \times 5^7 \times 7^5}$$

∴ Prime factorisation of the denominator is not of the form $2^m 5^n$ where m, n are whole numbers.

∴ Decimal representation of given number is non terminating repeating

$$10(viii) \frac{6^2}{15^5}$$

∴ Prime factorisation of the denominator is of the form $2^m 5^n$ where m, n are whole numbers.

∴ Decimal representation of given number is terminating