09 January 2020 16:07

To write a number in index form

-the base value will ALWAYS be a prime number.

Prime's → 2, 3, 5, 7

Method 1) Change the guren number to the base value in the question

Eg1) write 4 as 2" where n E N

Recall N > natural numbers > the power will be a positive whole number

4 $(2^{2}) \quad Ans = 2^{2}$ Power $\frac{1}{1}$ Base value

Recap on Number Systems - loy tables sets and Logic Pg 23

- 1) N -> Natural (Postwe whole numbers)
- 2) Z -> Intergers (Possitive and negative whole numers)
- 3) Q -> Quotients (fractions)
- 4) R → Real (All numbers fractions, decumals, J, TT)

Eg 2) Express each of the following in the form 3^n , where $n \in \mathbb{Q}$

- (3^2)
- 2) $q^2 (3^2)^2$ Brachet to power $3^{2\times 2} = 3^4$
- 3) $27^3 (3^3)^3 3^{3\times3} = 3^9$
- 4) $8|^2 (3^4)^2 3^{4 \times 2} = 3^8$
- Q1) Express each of the following in the fam 2ⁿ
 - 1) 8 11) J2 iii J8 iu) J32 $\int = \frac{1}{2}$ $(2)^{\frac{1}{2}}$
 - v) \\\[\frac{18}{2} \]
 - Qz Express each of the following in the form
- 1) 25 $2)\sqrt{5}$ $3)\frac{25}{\sqrt{5}}$ $4)\sqrt{125}$

5) 25