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Real Numbers

- Q1. State "Euclid's Division Lemma" and Use et to find the H.C.F of 18 and 24. [Ans:  $a = bq + \lambda$ ,  $o < \lambda < b$ ; 6]
- Q2. Use Euclid's division algorithme to find the H.C.F of 615 and 154. [Aus:-1]
- Q3. By the method of prime factorisation, find the H.C.F and L.C.M of 12, 15, 21 [Ans: - HCF = 3, LLM = 420]
- Q4. If H.C.F(8,36) = 4, find LCM
- Q5. By applying the Fundamental theorem of Arithmetic, find the HCF of 125 and 425 hence find their LCM also [Ans:- HCf = 25; LCM = 2125]
- Q6. Show that any positive odd integer is of the form 69+1 or 69+3 or 69+5 where q is some integer

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Q7. Explain why 7x11 x 13 + 13 and 7x6x5 x4x3x2x1 +5

are lomposite numbers.

De Prove that I2 is not a rational number

09 Show that 2-53 is irrational Humber

Q10. Show that 355 is not a valional

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