



## MATHS

### REAL NUMBERS

All Questions

1. Review of previous class



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## 2. Divisibility



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## 3. What is Euclid Division ?



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## 4. Euclid Division lemma



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## 5. Euclid division algorithm



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## 6. HCF of two positive integers



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7. Use Euclid's division algorithm to find the HCF of 210 and 55.



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8. What is fundamental Theorem ?



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9. Let  $p$  be a prime number and  $a$  be a positive integer. If  $p$  divides  $a^2$ ; then  $p$  divides  $a$ .



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10. HCF and LCM of Positive integers



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**11. Proving Irrationality of numbers :** Prove  $\sqrt{2}$  is a rational number.



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**12. Prove irrationality of Complex numbers :**  
Prove  $2 - 3\sqrt{5}$  is irrational number.



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**13.** Nature of the decimal expansion of rational numbers



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**14.** Rational number where decimal expansion terminates



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**15.** Rational number where decimal expansion terminates after  $k$  Place of decimals



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**16.** Rational numbers where decimal expansion is non-terminating



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**17.** Properties of Divisibility



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## 18. Proof of Euclid division lemma



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19. Prove that one of every three consecutive positive integers is divisible by 3.



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**20.** Find the HCF of 81 and 237 and express it as a linear combination of 81 and 237.



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**21.** Fundamental Theorem of Arithmetic



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