



INDIAN SCHOOL AL WADI AL KABIR

Dept. of Mathematics 2020 -2021, Class - X

Work sheet – Real Numbers (1)

- Using Euclid's division algorithm, find which of the following pairs of numbers are co-prime:
(i) 231, 396 (ii) 847, 2160
[Ans: (i) Not Co-prime, (ii) co-prime]
- Use Euclid's division algorithm to find the HCF of 441, 567, 693.
[Ans: 63]
- Using Euclid's division algorithm, find the largest number that divides 1251, 9377 and 15628 leaving remainders 1, 2 and 3, respectively.
[Ans: 625]
- Using Euclid's Division Algorithm find the HCF of 9828 and 14742.
[Ans: 4914]
- Show that the number of the form 7^n , $n \in \mathbb{N}$ cannot have unit digit zero.
- If $\text{LCM}(480, 672) = 3360$, find HCF (480,672).
[Ans: 96]
- Can two numbers have 18 as their HCF and 380 as their LCM? Give reasons.
- Express each of the following positive integers as the product of its prime factors: (i) 3825 (ii) 5005 (iii) 7429
- Find the HCF of 65 and 117 and express it in the form $65m + 117n$.
[Ans: $m = 2$ and $n = -1$]
- If the HCF of 210 and 55 is expressible in the form of $210x + 55y$, find y.
[Ans: $y = -19$]
- If the HCF of 408 and 1032 is expressible in the form of $1032m - 408x$, find m.
[Ans: $m = 2$]
- If the HCF of 657 and 963 is expressible in the form of $657n + 963x(-15)$, find n.
[Ans: $n = 22$]
- Find the largest number which divides 245 and 1029 leaving remainder 5 in each case.
[Ans: 16]