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(Affiliated to CBSE up to +2 Level)

CLASS: X **SUB.: MATHS (NCERT BASED)** **DATE: 22 -07-2020**

REVISION (REAL NUMBERS)

1. The LCM and HCF of two numbers are 240 and 12 respectively. If one of the numbers is 60, then find the other number.

2. The HCF and LCM of two numbers are 9 and 360 respectively. If one number is 45, write the other number.

3. What is the HCF of 52 and 130?

4. Express $0.\overline{6}$ as a rational number in the simplest form.

5. Prove that $(5+3\sqrt{2})$ is an irrational number.

6. Show that $2+\sqrt{3}$ is an irrational number.

7. Show that one and only one of n, n + 2 and n + 4 is divisible by 3.

8. Using Euclid's division algorithm, find the HCF of 56, 96 and 404.

9. If the HCF of 55 and 99 is expressible in the form 55m – 99, then the value of m is _____.

10. Find HCF of 1001 and 385.

11. 4 Bells toll together at 9.00 am. They toll after 7, 8, 11 and 12 seconds respectively. How many times will they toll together again in the next 3 hour

12. The HCF and LCM of two numbers are 33 and 264 respectively. When the first number is completely divided by 2 the quotient is 33. The other number is _____ .

13. Given that LCM (91, 26) = 182, then HCF (91, 26) is _____.

14. Find the LCM of smallest prime and smallest odd composite natural number.

15. If the prime factorisation of a natural number N is $2^4 \times 3^4 \times 5^3 \times 7$, write the number of consecutive zeroes in N.