MAHESH PUBLIC SCHOOL ,JODHPUR
CLASS -10
Real Number

1. The HCF and LCM of two numbers is 9 and 459 respectively. If one of the number is 27, then the other number is
a. 153
b. 150
c. 459
d. 135

2. What is the number x? The LCM of x and 18 is 36. The HCF of x and 18 is 2.
a. 1
b. 3
c. 2
d. 4

3. The HCF and LCM of two numbers are 9 and 90 respectively. If one number is 18, then the other number is
a. 54
b. 36
c. 45
d. 63

4. If the LCM of two numbers is 45 times their HCF and the sum of LCM and HCF is 1150, then HCF =
a. 50
b. 45
c. 1150
d. 25

5. Find the HCF and LCM of 11008 and 7344 using fundamental theorem of arithmetic.

6. Show that any positive integer is of the form 3q or, 3q + 1 or, 3q + 2 for some integer q.

7. Express the given number as the product of its prime factors: 5005.

8. If - 1 is a zero of the polynomial $f(x) = x^2 - 7x - 8$, then calculate the other zero.

9. Can the number 6^n, n being a natural number, end with the digit 5? Give reasons.

10. Three sets of physics, chemistry and mathematics books have to be stacked in such a way that all the books are stored topic wise and the number of books in each stack is the same. The number of physics books is 192, the number of chemistry books is 240 and the number of mathematics books is 168. Determine the number of stacks of physics, chemistry and mathematics books.