

CLASS – X

Maths

Date:-16/04/2020

→ Watch the online videos “Real Number -Lecture 3 & 4” from Optimum Online E-Learning Platform. After that try to solve the questions given in your assignment.

1 Define

(i) rational numbers, (ii) irrational numbers, (iii) real numbers

2: Find the least number which when divided by 35, 56 and 91 leaves the same remainder 7 in each case.

3: Find the smallest number which when divided by 28 and 32 leaves remainders 8 and 12 respectively.

4: Find the least number which should be added to 2497 so that the sum is exactly divisible by 5, 6, 4 and 3?

5: Find the greatest number which when divided by 20, 25, 35 and 40 leaves remainder as 14, 19, 29 and 34 respectively.

6: In a seminar, the number of participants in Hindi, English and mathematics are 60, 84 and 108 respectively. Find the minimum number of rooms required, if in each room, the same number of participants are to be seated and all of them being in the same subject.

7: Three pieces of timber 42 m, 49 m and 63 m long have to be divided into planks of the same length. What is the greatest possible length of each plank? How many planks are formed?

8: Find the greatest possible length which can be used to measure exactly the lengths 7 m, 3 m 85 cm and 12 m 95 cm.

9: Find the least number of square tiles required to pave the ceiling of a room 15 m 17 cm long and 9 m 2 cm broad.]

10: An electronic device makes a beep after every 60 seconds. Another device makes a beep after every 62 seconds. They beeped together at 10 a.m. At what time will they beep together at the earliest?

11: Six bells commence tolling together and toll at intervals of 2, 4, 6, 8, 10, 12 minutes respectively. In 30 hours, how many times do they toll together?



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