

Class 10 Maths Test Paper Ch 1 Real No.

MCQ

Q1. The HCF and the LCM of 18, 12, 21 respectively are

(a) 204, 9 (b) 9, 108 (c) 3,504 (d) 404, 3

Q2 . p^2-1 is divisible by 4, if p is:

(a)An even integer (b)An odd integer (c)Natural number (d)Any integer

Q3 $\frac{4\sqrt{(512)} - 4\sqrt{2}}{15\sqrt{32}}$ is (choose correct option) :

(a)Irrational no. (b) -ve integer (c) least prime no. (d) whole no.

Q4 If x and y are co-prime no. then HCF(x,y) is:

(a)5 (b)2 (c)1 (d)3

Q5 $\sqrt{-9}$ is

(a)irrational no. (b)rational no (c)-ve irrational (d)None

Descriptive Questions :

Q6 State the fundamental theorem of Arithmetic, using it check whether 14^n can end with zero or not?

Q7 find the smallest no. which exactly divides 368 and 621.

Q8 Prove that $7 - 5\sqrt{3}$ is an irrational no.

Q9 Four bells toll together at 11:00 am, they toll after 4,10,12 and 15 sec respectively. At what time they will toll together again?

– Case Study- Question



Q10 A college girl Lina , works part-time job at a book shop to manage her study expenses. One day, the owner asked her to arrange 90 Chemistry books 240 Physics books and 336 Mathematics books such that:

Each stack contains books of only one subject and the number of books in each stack is the same

Answer the following questions:

- (a) Find the number of books in each stack.**
- (b) Find the minimum number of stacks of all the books.**
- (c) Find the difference between the sum of stacks of Mathematics books and Chemistry books and stacks of Physics books.**
- (d) What value do students learn from Lina by managing her expenses on her own?**

