

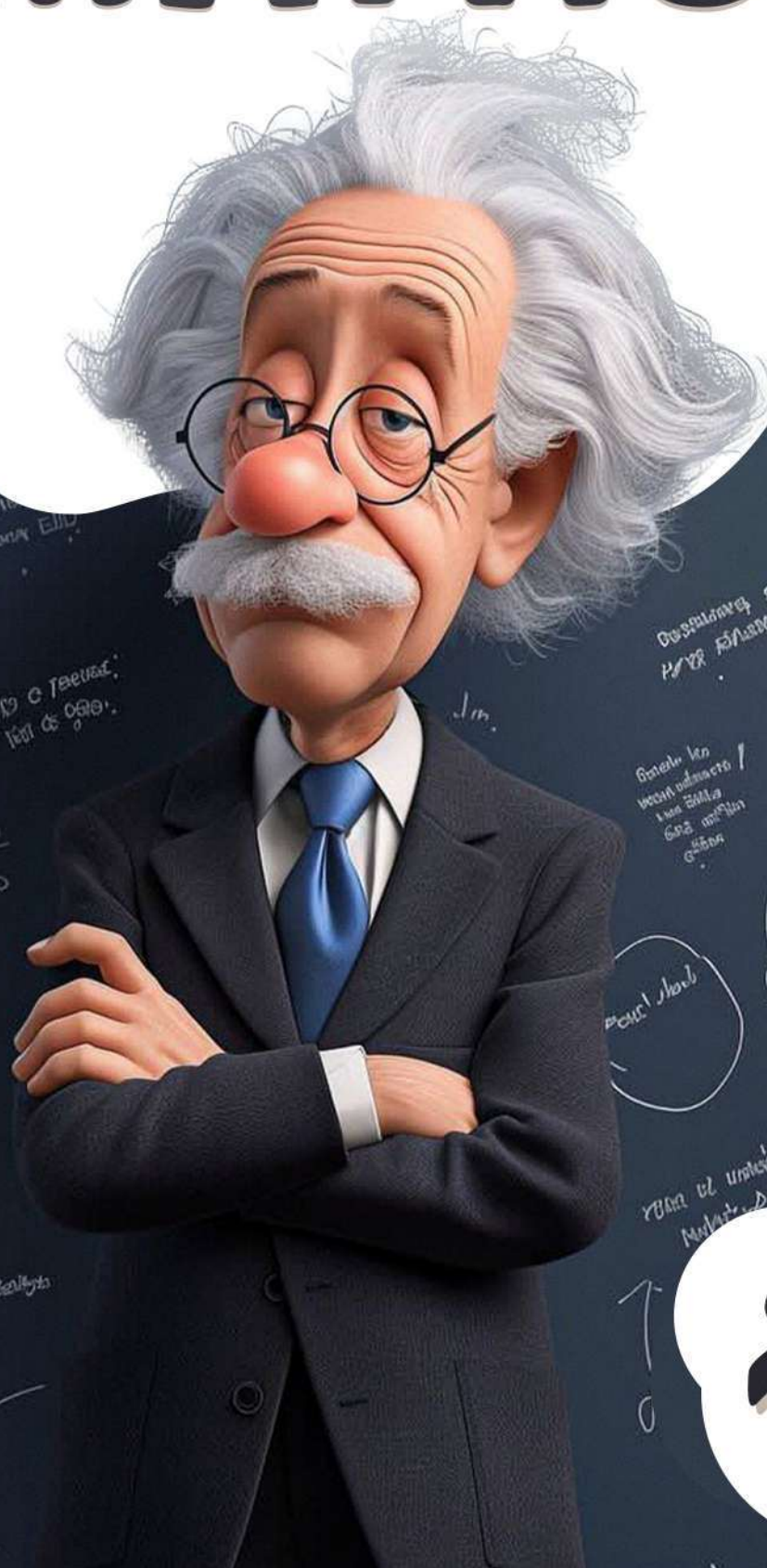


RBSE

CHAPTERWISE PYQ

MATHS

2013 - 2025



Class
10

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01

REAL NUMBERS

[Section-A]

Multiple Choice Questions :-

1. Which of the following is an irrational number? [1M]
(A) 2
(B) 2.232425....
(C) $2.\overline{23}$
(D) 2.23 [RBSE 2022]
2. The sum of the powers of the prime factors of 196 is- [1M]
(A) 1
(B) 2
(C) 4
(D) 6 [RBSE 2023]
3. The Highest Common Factor of two numbers is 27 and their Least Common Multiple is 162 . If one number is 54 , then the other number is : [1M]
(A) 81
(B) 27
(C) 54
(D) 18 [RBSE 2024]
4. The sum of powers of prime factors of 400 is
A) 4
B) 9
C) 6
D) 8 [1M]
[RBSE 2025]
5. If $HCF = LCM$ for two rational numbers, then numbers always should be
A) Composite
B) Equal
c.) Prime

D) Co-prime

[1M]

(RBSE 2025)

Very Short Answer Type Questions:-

6. Find the H.C.F. of numbers 44 and 99.

[1M]

(RBSE 2013)

7. Find the HCF of 96 and 404 by the Prime Factorisation Method.

[1M]

(RBSE 2015)

8. Find the HCF of integers 375 and 675 by the prime factorisation method.

[1M]

(RBSE 2016)

9. HCF and LCM of two integers are 12 and 336 respectively. If one integer is 48, then find another integer.

[1M]

(RBSE 2017)

10. Write the sum of powers of prime factors of 196.

[1M]

(RBSE 2018)

11. Find the HCF of 68 and 119.

[1M]

(RBSE 2019)

12. If product of two numbers is 12960 and HCF is 18 then find their LCM.

[1M]

(RBSE 2020)

13. Find the least common multiple (LCM) of numbers 72 and 120.

[1M]

(RBSE 2022)

14. Highest Common Factor (HCF) of 95 and 152 is.

[1M]

(RBSE 2023)

15. If $x = 2^3 \times 3^2$ and $y = 2^2 \times 3^2$, then find the Least Common Multiple (L.C.M.) of x and y .

[1M]

(RBSE 2024)

[Section-B]

Short Answer Type Questions:-

16. Find the highest common factor (HCF) of two numbers 616 and 32.

[2M]

(RBSE 2022)

17. Prove that $\sqrt{5}$ is an irrational number.

[2M]

(RBSE 2024)

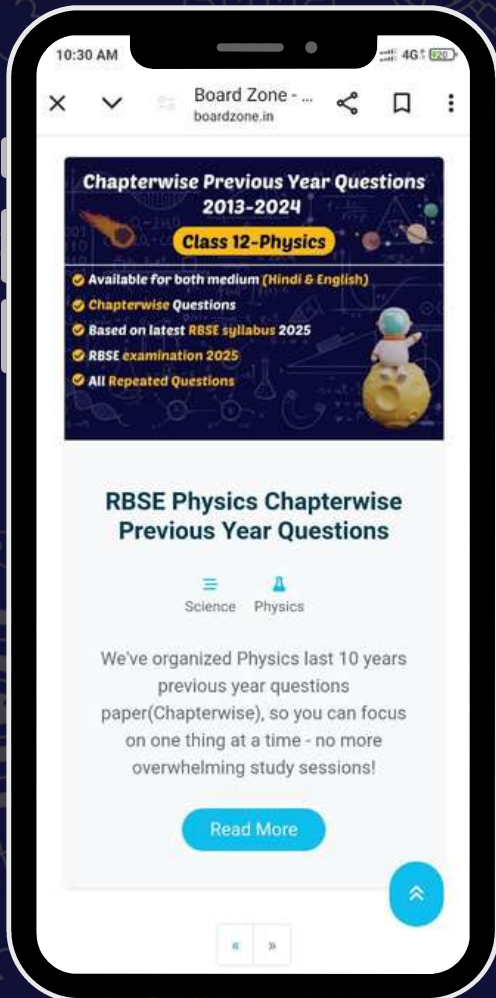
- (RBSE 2024)

Long Answer Type Questions:-

- [3M]
(RBSE 2019)



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