



Class 10 Mathematics | Real Numbers

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. The prime factorisation of 180 is:

A. $2^2 \times 3 \times 5$ B. $2^3 \times 3^2 \times 5$ C. $2^2 \times 3^2 \times 5$ D. $2 \times 3^2 \times 5$

2. The HCF of 72 and 120 is:

A. 36 B. 24 C. 48 D. 12

3. The LCM of 18 and 24 is:

A. 6 B. 72 C. 144 D. 48

4. If $\text{HCF}(a,b)=6$ and $\text{LCM}(a,b)=180$, then ab equals:

A. 186 B. 1080 C. 174 D. 30

5. Two positive numbers have HCF 8 and product 960. Their LCM is:

A. 120 B. 128 C. 7680 D. 96

6. The smallest number divisible by 12, 15 and 20 is:

A. 240 B. 60 C. 120 D. 30

7. The HCF of two distinct prime numbers is:

A. 1 B. the larger prime
C. their product D. their sum

8. If n is a positive integer, 6^n ends in:

A. 4 B. 6 C. 2 D. 0

9. Which number is irrational?

A. $\sqrt{11}$ B. $\sqrt{121}$ C. 0.375 D. $7/9$

10. The number $3+2\sqrt{5}$ is:

A. a whole number B. irrational
C. an integer D. rational

11. If $a=2^3 \times 3^2$ and $b=2^2 \times 3 \times 5$, $\text{HCF}(a,b)$ is:

A. 12 B. 36 C. 24 D. 180

12. For the same $a=2^3 \times 3^2$ and $b=2^2 \times 3 \times 5$, $\text{LCM}(a,b)$ is:

A. 72 B. 360 C. 180 D. 60

13. Bells ring every 8, 12 and 18 minutes. Starting together, they next coincide after:

A. 24 min B. 36 min C. 72 min D. 144 min

14. The largest tile size that exactly covers a 144 cm by 96 cm floor with square tiles is:

A. 24 cm B. 72 cm C. 48 cm D. 12 cm

15. Why is $7 \times 11 \times 13 + 13$ composite?

A. It is odd.
B. Its digits sum to 12.
C. It equals 13×78 .
D. It has no prime factors.

ANSWER KEY — check after completing all 15 questions

1.C 2.B 3.B 4.B 5.A 6.B 7.A 8.B 9.A 10.B 11.A 12.B 13.C 14.C 15.C

Original exam-style practice • Reference notes: www.physics.guru/cbse-practice-papers/ • Not an official paper

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