



Class 11 Mathematics | Sequences And Series

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

1. The 6th term of the GP 3,6,12,... is:

A. 96 B. 192 C. 64 D. 48

2. The common ratio of 81,27,9,... is:

A. $\frac{1}{3}$ B. $-\frac{1}{3}$ C. -3 D. 3

3. The sum of the first 5 terms of 1,2,4,... is:

A. 16 B. 32 C. 30 D. 31

4. The geometric mean of 4 and 25 is:

A. 5 B. 20 C. 10 D. 14.5

5. For positive a,b, which is always true?

A. $AM < GM$ B. $AM \geq GM$ C. $GM = 0$ D. $AM = 2GM$

6. If $AM = GM$ for positive a,b, then:

A. $ab = 1$ B. $a = 2b$ C. $a = b$ D. $a + b = 1$

7. The sum to infinity of $6 + 3 + \frac{3}{2} + \dots$ is:

A. 18 B. 6 C. 12 D. 9

8. Which GP has a finite sum to infinity?

A. 2, -2, 2, ...

B. 3, 3, 3, ...

C. 5, -2.5, 1.25, ...

D. 1, 2, 4, ...

9. If a GP has $a = 2$ and $r = 3$, its 4th term is:

A. 81 B. 18 C. 24 D. 54

10. Three positive numbers 2,k,18 are in GP. Find k.

A. 9 B. 8 C. 10 D. 6

11. A population doubles yearly from 500. After 3 years it is:

A. 8000 B. 2000 C. 4000 D. 1500

12. The sum of the first 4 terms of 3,-6,12,... is:

A. 45 B. -9 C. 15 D. -15

13. If a GP has third term 12 and fourth term 24, its first term is:

A. 2 B. 6 C. 3 D. 4

14. For positive numbers with product 36, the least possible sum is:

A. 6 B. 36 C. 18 D. 12

15. Two positive geometric means inserted between 2 and 54 are:

A. 9, 18 B. 4, 27 C. 8, 16 D. 6, 18

ANSWER KEY — check after completing all 15 questions

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

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

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