

MATHS

Progression - AP/GP/HP Worksheet for MAH MCA CET 2025

For students preparing for MCA Entrance Exam.

1. There is an AP 11, 13, 15.... Which term of this AP is 65?
- A. 25th
B. 26th
C. 27th
D. 28th
2. Find the 25th term of the sequence 50, 45, 40
- A. -55
B. -65
C. -70
D. -75
3. Find r for the geometric progression whose first three terms are 2, 4, 8.
- A. 8
B. 4
C. 2
D. 6
4. The 6th and 20th terms of an AP are 8 and -20 respectively. Find the 30th term
- A. -34
B. -40
C. -32
D. -30
5. How many terms are there in the AP 10, 15, 20, 25, ..., 120?
- A. 21
B. 22
C. 23
D. 24
6. Find the number of terms of the series $1/27, 1/9, 1/3, \dots, 729$.
- A. 10
B. 11
C. 12
D. 13
7. If the fifth term of a G.P. is 80 and first term is 5, what will be the 4th term of the G.P.?
- A. 20
B. 15
C. 40
D. 25
8. Given the first two terms in a geometric progression as 2 and 4, what is the 10th term?
- A. 1022
B. 1029
C. 1030
D. 1024
9. How many natural numbers between 100 to 500 are multiples of 9?
- A. 44
B. 48
C. 47
D. 50
10. The sum of the first 20 terms of an AP whose first term and third term are 25 and 35, respectively is
- A. 1200
B. 1250
C. 1400
D. 1450
11. A number 39 is divided into three parts which are in A.P. and the sum of their squares is 515. Find the largest number.
- A. 17
B. 15
C. 13

- D. 11
12. Given the first two terms of a geometric progression as 5 and $\frac{1}{2}$, what is the sum of the first 7 terms?
- A. 6.232112
B. 3.254821
C. 5.555555
D. 4.203541
13. The sum of three numbers in a G.P. is 13 and the sum of their squares is 91. Find the smallest number.
- A. 1
B. 3
C. 4
D. 12
14. The 3rd and 8th term of a GP are $\frac{1}{3}$ and 81, respectively. Find the 2nd term.
- A. 3
B. 1
C. $\frac{1}{27}$
D. $\frac{1}{9}$
15. The sum of 5 numbers in AP is 35 and the sum of their squares is 285. Which of the following is the third term?
- A. 5
B. 7
C. 6
D. 8
16. The number of terms of the series $26 + 24 + 22 + \dots$ such that the sum is 182 is
- A. 13
B. 14
C. Both a and b
D. 15
17. Find the 1st term of an AP whose 8th and 12th terms are respectively 60 and 80.
- A. 15
B. 20
C. 25
D. 30
18. The first term of an arithmetic progression is 13 and the common difference is 4. Which of the following will be a term of this AP?
- A. 4003
B. 10091
C. 7881
D. 13631
19. How many terms are there in the G.P. 5, 10, 20, 40, ..., 1280?
- A. 6
B. 8
C. 9
D. 10
20. Find the 23rd term of the sequence: 1, 4, 5, 8, 9, 12, 13, 16, 17,
- A. 33
B. 39
C. 45
D. 43

Answer Key

1. D	2. C	3. C	4. B	5. C	6. A	7. C	8. D	9. A	10. D
11. B	12. C	13. A	14. D	15. B	16. C	17. C	18. C	19. C	20. C

