GEOMETRIC PROGRESSION

10 MCQs for Class 10

In a GP

$a, ar, ar^2, ar^3, \ldots$

Common ratio = r

n^{th} term

$a_n = ar^{n-1}$

- a = first term
- r = common ratio
- a_n = n^{th} term

1 The common ratio of the GP 2, 6, 18, 54, ... is:

A 2 B 3 C 4 D 6

2 The 5th term of the GP 3, 6, 12, 24, ... is:

A 36 B 48 C 60 D 96

3 In the GP 5, 10, 20, 40, ..., the common ratio is:

A 2 B 4 C 5 D 10

4 The 4th term of the GP 2, 4, 8, 16, ... is:

A 8 B 12 C 16 D 32

5 Which of the following is a Geometric Progression?

A 2, 4, 6, 8, ...
B 3, 6, 12, 24, ...
C 1, 3, 6, 10, ...
D 5, 10, 15, 20, ...

6 The 3rd term of the GP 4, 12, 36, ... is:

A 24 B 32 C 36 D 48

7 If the first term is 5 and the common ratio is 2, the second term is:

A 7 B 10 C 12 D 15

8 The common ratio of the GP 81, 27, 9, 3, ... is:

A $\frac{1}{3}$ B 3 C 9 D 27

9 The 6th term of the GP 1, 2, 4, 8, ... is:

A 16 B 32 C 64 D 128

10 The first term of the GP 7, 21, 63, 189, ... is:

A 1 B 3 C 7 D 21

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