102. Finding the nth Term of a Sequence

Practice Questions

1. Find the nth term of the sequence: 3, 6, 9, 12, 15.
2. Find the nth term of the sequence: 5, 8, 11, 14, 17.
3. Find the nth term of the sequence: 2, 5, 8, 11, 14.
4. Find the nth term of the sequence: 10, 7, 4, 1, –2.
5. Find the nth term of the sequence: 4, 9, 14, 19, 24.
6. Find the nth term of the sequence: 1, 4, 9, 16, 25.
7. Find the nth term of the sequence: 5, 10, 15, 20, 25
8. Find the nth term of the sequence: 12, 9, 6, 3, 0.
9. Find the nth term of the sequence: 7, 14, 21, 28, 35.
10. Find the nth term of the sequence: 6, 12, 18, 24, 30.

Scenario Questions

1. A builder lays bricks in a pattern where each row has 3 more bricks than the previous row. The first row has 4 bricks. Find the nth term for the number of bricks in each row.
2. A theme park charges £5 for the first ticket, £7 for the second, and £9 for the third. Find the nth term of the price pattern.
3. A school gym adds 4 more seats per row than the previous row. The first row has 6 seats. Find the nth term of the sequence.
4. A cinema increases ticket prices each year by £3, starting at £10. Find the nth term of the ticket price.
5. A runner trains by increasing their distance by 2 km each day, starting from 5 km. Find the nth term for the daily distance.
6. A restaurant adds 5 more tables per month, starting with 10 tables. Find the nth term of the sequence.
7. A builder installs tiles in a square pattern. The first layer has 1 tile, the second has 4, the third has 9, and so on. Find the nth term of this pattern.
8. A farm increases its production of eggs each week by 6, starting from 12 eggs. Find the nth term.
9. A student revises 2 hours in the first week, 5 in the second week, and 8 in the third week. Find the nth term of the study pattern.
10. A website gains 50 new users in the first month, 100 in the second, and 150 in the third. Find the nth term for the number of users.

102. Finding the nth Term of a Sequence

Practice Questions

1. $3n$
2. $3n + 2$
3. $3n - 1$
4. $-3n + 13$
5. $5n - 1$
6. n^2
7. 5n
8. $-3n + 15$
9. $7n$
10. $6n$

Scenario Questions

1. $3n + 1$
2. $2n + 3$
3. $4n + 2$
4. $3n + 7$
5. $2n + 3$
6. $5n + 5$
7. n^2
8. $6n + 6$
9. $3n - 1$
10. $50n$