

Class 9 Mathematics - Predicting What Comes Next: Exploring Sequences and Progressions

Name: _____

Date: _____

Advanced Worksheet 1

Questions

1. Find the 25th term of the AP: 7, 12, 17, 22, ...
2. Find the 40th term of the AP: 3, 8, 13, 18, ...
3. Determine whether 102 is a term of the AP: 2, 6, 10, 14, ...
4. Determine whether 155 is a term of the AP: 5, 11, 17, 23, ...
5. Find the n th term of: 8, 15, 22, 29, ...
6. Find the 50th term of the sequence in Question 5.

Answer Key

1. 127
2. 198
3. Yes
4. Yes
5. $t_n = 8 + (n - 1) \times 7$
6. 351