

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

Name: _____

Date: _____

Advanced Worksheet 4

Questions

1. Find the sum of the first 25 natural numbers.
2. Find the sum of the first 50 natural numbers.
3. Find the 25th triangular number.
4. Find the 40th triangular number.
5. If the n th triangular number is 300, find n .
6. Explain why every triangular number can be written as $n(n + 1)/2$.

Answer Key

1. 325
2. 1275
3. 325
4. 820
5. 24
6. It represents the sum of the first n natural numbers.