

OLYMPIAD · MENTAL ABILITY · OLYMPIAD PREPARATION · DPP SHEET

Chapter 1: Number and Letter Series

Daily practice problems: 10 questions with an answer key

Try every question on your own first. The answer key is on the last page.

1. Find the next term: 5, 8, 11, 14, ?
2. Find the next term: 2, 6, 18, 54, ?
3. Find the next term: 1, 4, 9, 16, 25, ?
4. Find the next term: 0, 3, 8, 15, 24, ?
5. Find the next term: 1, 2, 4, 7, 11, 16, ?
6. Find the missing term: 2, 3, 5, 7, 11, ?, 17
7. Find the next term: 1, 1, 2, 3, 5, 8, 13, ?
8. Find the next term: A, C, F, J, ?
9. Find the next term: ZA, YB, XC, ?
10. Find the next term: 3, 10, 5, 20, 7, 40, ?

Answer Key

1. 17 (add 3 each time).
2. 162 (multiply by 3 each time).
3. 36 (the squares of 1, 2, 3, ...).
4. 35 (the terms are $n^2 - 1$ for $n = 1, 2, 3, \dots$; the next is $6^2 - 1$).
5. 22 (the differences are 1, 2, 3, 4, 5, so the next difference is 6).
6. 13 (the prime numbers in order).
7. 21 (each term is the sum of the two before it).
8. O (the positions are 1, 3, 6, 10, 15, with growing steps of 2, 3, 4, 5).
9. WD (the first letters go backward and the second letters go forward).
10. 9 (the odd places are 3, 5, 7, 9 and the even places are 10, 20, 40).

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