



Number sequences worksheet

1) Obtain the general term of these sequences

a) 1, 7, 13, 19, . . .

b) 100, 95, 90, . . .

2) Write the arithmetic sequence using the given general term.

a) $a_n = 15 - 5(n - 1)$

b) $a_n = \frac{12 + 8(n + 1)}{2}$

3) Write next two terms of given A.P. -3, -5, -7, -9.....Also give its general term.

4) The n th term of an AP is $7 - 4n$. Find its common difference



- 5) Find the common difference and 15th term of an arithmetic progression: 125, 120, 115, 110, . . . Also give its general term.
- 6) Obtain the general term of the given sequence. Also find the 17th term of the arithmetic progression: 4, 9, 14, . . .
- 7) How many terms are there in the following Arithmetic progression? -16, -12, -8.....16
- 8) Obtain the general term of the given sequence. Also find the 14th term of the arithmetic progression: -7 , $-6\frac{1}{2}$, -6 , . . .



Answers

1. a) $6n-5$
b) $105-5n$
2. a) 15, 10, 5, ...
b) 14, 18, 22, ...
3. General term = $-1-2n$
4. $d=-4$
5. term 15=55 ; General term = $130-5n$
6. term 17=84 ; General term = $5n-1$
7. $n=9$
8. General term = $0.5n-7.5$; term 14 = -0.5