

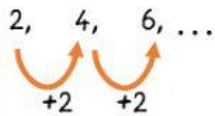
NAME : _____

CLASS : _____

PATTERNS & SEQUENCES

Question 1 : State the 6th term for the following number sequence.

Example :

2, 4, 6, ...


The pattern is

+2

$T_1 = 2$

$T_4 = 8$

$T_2 = 4$

$T_5 = 10$

$T_3 = 6$

$T_6 = 12$

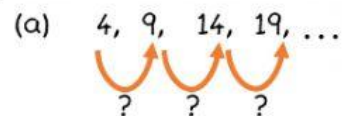
6 th term
12

TIPS

n-term = T_n

Term

Term position

(a) 4, 9, 14, 19, ...


The pattern is

$T_1 =$

$T_4 =$

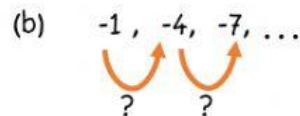
$T_2 =$

$T_5 =$

$T_3 =$

$T_6 =$

6 th term

(b) -1, -4, -7, ...


The pattern is

$T_1 =$

$T_4 =$

$T_2 =$

$T_5 =$

$T_3 =$

$T_6 =$

6 th term

(c) 256, 128, 64, ...



The pattern is

$T_1 =$	
---------	--

$T_4 =$	
---------	--

$T_2 =$	
---------	--

$T_5 =$	
---------	--

$T_3 =$	
---------	--

$T_6 =$	
---------	--

6 th term

(d) 2, 6, 18, ...



The pattern is

$T_1 =$	
---------	--

$T_4 =$	
---------	--

$T_2 =$	
---------	--

$T_5 =$	
---------	--

$T_3 =$	
---------	--

$T_6 =$	
---------	--

6 th term

Question 2:

Given the number sequence : 8, 11, 14, 17, 20, 23, ...

Which algebraic expression can be used to find the n^{th} term of the sequence?

- A. $2n + 6$
- B. $3n + 5$
- C. $5n + 3$
- D. $6n + 2$

Answer :