

Silver Wilf : to identify number sequences and to calculate the n^{th} term using times table support

Finding the n^{th} term of a sequence

Name:

Date:

			Difference	n^{th} term	Extension: 10^{th} term
Q1	<i>Times table of the 'difference'</i>				
	Sequence	3, 5, 7, 9, 11...			

			Difference	n^{th} term	Extension: 10^{th} term
Q2	<i>Times table of the 'difference'</i>				
	Sequence	5, 8, 11, 14, 17...			

			Difference	n^{th} term	Extension: 10^{th} term
Q3	<i>Times table of the 'difference'</i>				
	Sequence	8, 13, 18, 23, 28...			

			Difference	n^{th} term	Extension: 10^{th} term
Q4	<i>Times table of the 'difference'</i>				
	Sequence	6, 9, 12, 15, 18...			

			Difference	n^{th} term	Extension: 10^{th} term
Q5	<i>Times table of the 'difference'</i>				
	Sequence	1, 6, 11, 16, 21...			

			Difference	n^{th} term	Extension: 10^{th} term
Q6	<i>Times table of the 'difference'</i>				
	Sequence	4, 10, 16, 22, 28...			

			Difference	n^{th} term	Extension: 10^{th} term
Q7	<i>Times table of the 'difference'</i>				
	Sequence	5, 15, 25, 35, 45...			

			Difference	n^{th} term	Extension: 10^{th} term
Q8	<i>Times table of the 'difference'</i>				
	Sequence	0, 3, 6, 9, 12...			

			Difference	n^{th} term	Extension: 10^{th} term
Q9	<i>Times table of the 'difference'</i>				
	Sequence	2, 11, 20, 29, 38...			

			Difference	n^{th} term	Extension: 10^{th} term
Q10	<i>Times table of the 'difference'</i>				
	Sequence	1, 9, 17, 25, 33...			

			Difference	n^{th} term	Extension: 10^{th} term
Q11	<i>Times table of the 'difference'</i>				
	Sequence	-2, 1, 4, 7, 10...			

			Difference	n^{th} term	Extension: 10^{th} term
Q12	<i>Times table of the 'difference'</i>				
	Sequence	-1, 3, 7, 11, 15			

Extension: In your book, work out the n^{th} terms for these sequences:

Q13: 4, 9, 14, 19, 24...

Q14: 5, 12, 19, 26, 33...

Q15: -2, 4, 10, 16, 22...