

Name: _____



Find the n^{th} term of the sequences:

a) 4, 6, 8, 10, 12 ...

g) 7, 13, 19, 25, 31 ...

b) 3, 7, 11, 15, 19 ...

h) -4, 4, 12, 20, 28 ...

c) 9, 14, 19, 24, 29 ...

i) -9, -4, 1, 6, 11 ...

d) 0, 5, 10, 15, 20 ...

j) 19, 16, 13, 10, 7 ...

e) 1, 9, 17, 25, 33 ...

k) 2, -3, -8, -13, -18 ...

f) -3, -1, 1, 3, 5 ...

k) 8, 3, -2, -7, -12 ...

Find the 1st, 3rd, 5th and 100th terms of the following n^{th} term sequences:

	1 st Term	3 rd Term	5 th Term	100 th Term
l) $n + 8$	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
m) $3n$	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
n) $2n + 4$	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
o) $3n - 1$	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
p) $-4n + 10$	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
q) $-5n - 5$	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
r) $8 - 4n$	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Fully explain your answer for the following questions

s) Is 95 a term in the sequence 2, 5, 8, 11 ... ?

t) Is 117 a term in the sequence 5, 11, 17, 23 ... ?

u) Is 250 a term in the sequence 40, 55, 70, 85 ... ?

v) Is 228 a term in the sequence 6, 14, 22, 30 ... ?

Exam question:

Here are the first five terms of a number sequence. 8, 11, 14, 17, 20

a) Write an expression, in terms of n , for the n^{th} term of this number sequence.

b) Determine if 245 is in this sequence and if so, which position it appears.

