Using the nth Term

- (a) The first four terms of a sequence are $3,7,11,15,\ldots$ Is 50 in the sequence? Explain your answer.
- (b) The first four terms of a sequence are -4, -2, 0, 2, ... Is 33 in the sequence? Explain your answer.
- (c) The first four terms of a sequence are $1, 6, 11, 16, \dots$ Is 41 in the sequence? Explain your answer.
- (a) The first four terms of a sequence are 6, 9, 12, 15, ... Is 39 in the sequence? Explain your answer.
- (b) The first four terms of a sequence are $7, 10, 13, 16, \dots$ Is 67 in the sequence? Explain your answer.
- (c) The first four terms of a sequence are $5, 8, 11, 14, \dots$ Is 40 in the sequence? Explain your answer.
- (a) The nth term of a sequence is 3n-2. Is 95 a term of the sequence? Explain your answer.
- (b) The nth term of a sequence is 5n+3. Is 118 a term of the sequence? Explain your answer.
- (c) The first four terms of a sequence are $7,11,15,19,\ldots$ Is 97 in the sequence? Explain your answer.
- (d) The first four terms of a sequence are -2,5,12,19,... Is 110 in the sequence? Explain your answer.
- (a) How many terms in the sequence $5, 9, 13, 17, \dots$ are less than 200?
- (b) Find two numbers that are in the sequence 7, 12, 17, 22, ... and also in the sequence -4, 2, 8, 14, ...

- (a) No, all terms in sequence are odd & 50 is even
- (b) No , all terms are even and 33 15 odd
- (c) No Yes, all terms end in 1006, and 41 ends
- (a) Yes , the sequence is the 3x bable from 6 up, and 39 is in the 3x bable
- (b) Yes, sequence is 1 more than 3x table & 67 is 1 more than 66.
- (c) No, sequence is 1 less than 3xtable. 40 is 1 less than 41 which is not in 3xtable.
- (a) 3n-2=95 $n=\frac{97}{3}$, No
- (b) 5n+3=118 n=23, Yes
- (c) 4n+3=97, n=23.5, No
- (d) 7n-9=110 n=17, Yes
 - (a) 4n+1 < 200 n < 49.75 So 49 term 5
- (b) 2nd seq 20,26 (32),38,44, 50,56 (62)

32 and 62