Sequences

1   Look at the following sequence of numbers:

$$2, 7, 11, 15, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$$

   a. Copy the sequence out putting in the missing numbers.
   b. What is the closed form or nth term for this sequence?
   c. What would the 235th number in the sequence be?
   d. Is 673 in this sequence?

2   Look at the following sequence of numbers:

$$81, 75, 69, 63, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$$

   a. Copy the sequence out putting in the missing numbers.
   b. What is the closed form or nth term for this sequence?
   c. What would the 121st number in the sequence be?
   d. Is 938 in this sequence?

3   Look at the following linear sequence of numbers:

$$27, \underline{\hspace{1cm}}, 49, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$$

   a. Copy the sequence out putting in the missing numbers.
   b. What is the closed form or nth term for this sequence?
   c. What would the 121st number in the sequence be?
   d. Is 938 in this sequence?

4   The ninth number in a linear sequence is 60 and the twelfth number 93.

   a. What is the closed form or nth term for this sequence?
   b. What would the 698th number in the sequence be?
   c. Is 2017 in this sequence?