

Exercise 2015-8EB-00001(1)

(1) Complete the next 5 terms in each of the following sequences:

- (a) -11 ; -13 ; -15 ;
- (b) 3 ; -6 ; 12 ; -24 ; 48 ;
- (c) 2 ; 6 ; 12 ; 20 ; 30 ;
- (d) 7 ; -7 ; 7 ; -7 ;
- (e) 15 ; 27 ; 39 ; 51 ; 63 ;

(2) Consider the following sequence: 1 ; 4 ; 7 ; 10 ;

- (a) Complete the next three terms in the sequences.
- (b) Describe the pattern of the sequence in words.
- (c) Write a general rule to describe the pattern in the sequence.
- (d) What will the 100th term in the sequence be?

(3) Write the first 5 terms which is described in each of the following sentences:

- (a) The first term of the sequence is 6. Each consecutive term is 4 less than the previous term.
- (b) The first term is -5,7. Add 2,1 each time to obtain the next term.
- (c) The first term is 5. Multiply with -2 to obtain the following term.