**Construct Expressions, Formula and Equations - Basics**

|  |  |  |
| --- | --- | --- |
| Name : | Class : | Date : |

|  |  |  |
| --- | --- | --- |
| Mark : | /6 | % |

|  |  |
| --- | --- |
| **1)** Write an algebraic expression for the sentence below (use the letter ***n*** to represent the missing number):      a) *Double a number*     b) *Triple a number and add 1* | [2]   |
| **2)** I start a game with  $b$ marbles and lose  $c$ marbles. Write down a formula for the number,  $A$, of marbles that I finish with.       | [1]   |
| **3)** Write a formula using the letters and numbers given below:       *A number*$W$ *is equal to the difference of a number*$a$ *and the square of*$c$*.* | [1]   |
| **4)** Using the letter ***n***, write an equation to represent the following:       *I'm thinking of a number. I triple it then subtract 3 and get an answer of 18.* | [1]   |
| **5)** a) Using the letter ***n*** to represent the missing number, write an equation for the following:      *I'm thinking of a number. I triple it then add 5 and get an answer of 23.*b) Solve your equation to find the missing number | [1]   |

**Solutions for the assessment Construct Expressions, Formula and Equations - Basics**

|  |  |
| --- | --- |
| **1)**  a) 2 $n$ |      b)  $3n+1$ |
| **2)**  $A=$ $b-c$ | **3)**  $W$ =  $a-c^{2}$ |
| **4)**  $3n-3=18$ | **5)** a)  $3n+5=23$, b)  $n$=6 |