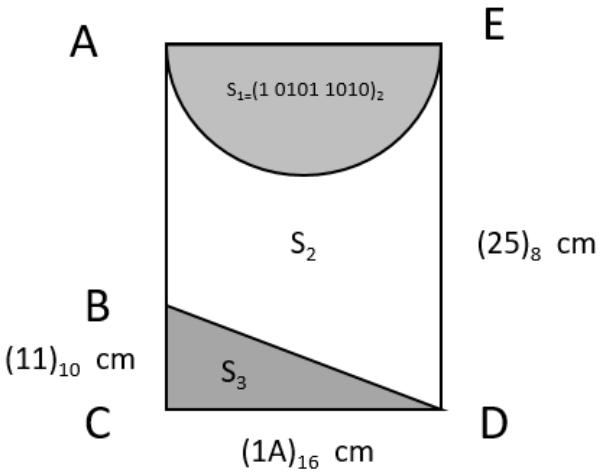
The use of calculators is strictly forbidden.



First name: ……
Last name: ……
Group: ……
Matriculation Number: ……

Exercise 1 : (Show the calculation steps for all answers.)

1- Let the following geometric shape :
   a. Represent BC, CD and S1 in 2's complement (C2) on 12 bits

BC = ……

CD = ……

S1 = ……

   b. Represent BC in hexadecimal (base16) and CD in Octal (B8)

BC = ……

CD = ……

2- Compute the surface S3 using **only hexadecimal** representation.

……

3- Compute the surface ACDE, using **only octal** representation.

4- Compute the surface S2 using **only 2's complement** representation, Indicate the carry and the overflow.