1.

High level language : 
$$a1 = (a1 - a2) * a4 + a5$$

Assembly language:

SUB a1, a2, a3 (a1 = a2 - a3) 
$$(3$$
-address instruction)

MUL a1, a4 (a1 = a1 \* a4) 
$$(2$$
-address instruction)

ADD a1, a5 (a1 = a1 + a5) 
$$(2$$
-address instruction)

2.

Equation is the following EPS =  $\frac{number\ of\ security\ event}{time\ period\ (s)}$ 

$$8 + 8 + 10 + 5 + 8 + 8 = 47$$
msec

$$\frac{47msec*10^{-3}}{1 msec} = 0.047 sec$$

47\*10<sup>-3</sup>- seconds