a)
$$4.10^{7}.5.\frac{1}{4.10^{9}} =$$

Instruction count x CPI x clock time =

(Assumed memory stage reads one cycle!)

$$5)^{\frac{7}{100}} = 4.10^{\frac{3}{100}} = 4.10^{\frac{3}{100}} = 4.10^{\frac{3}{100}} = 4.10^{\frac{3}{100}} = \frac{3.8}{100} = \frac{0.0385}{100} = 38m5$$

New CPI = 7,72 ,
$$T = 4.10^{7}$$
, $7,72 \cdot \frac{1}{4.10^{7}} = \frac{7,72}{10^{2}} = \frac{0,07725}{10^{2}}$

Note: for part a it would be 5 instead of (5, 70 + 1.30)"
in the equation if we wouldn't assume memory stage as one cycle. The result would be 0,055 (50ms) then.