Calculate accuracy ?

Ground Truth		Model
Normal	Sensitivity $= \frac{\#(+ \mid disease)}{disease} = \frac{2}{3}$	−
Normal		−
Disease	Specificity $= \frac{\#(- \mid normal)}{normal} = \frac{4}{7}$	+
Normal		−
Normal	Prevalence $= \frac{\#\ disease}{\#\ total} = \frac{3}{10}$	−
Disease		−
Normal	Accuracy $=$ Sensitivity $\times$ Prevalence $+$	−
Disease	Specificity $\times (1 - \text{Prevalence})$	+
Normal	$= \frac{2}{3} \times \frac{3}{10} + \frac{4}{7}\left(1 - \frac{3}{10}\right)$	+
Normal		−

$$= \frac{2}{10} + \frac{6}{7} \times \frac{7}{10}$$

$$= \frac{2}{10} + \frac{6}{10} = \frac{8}{10} = 0.8$$