## WRITING RECURRING DECIMALS AS FRACTIONS

a) Change the recurring fraction 0.88 into a fraction

Let $\mathrm{x}=0.88888$...
$10 \mathrm{x}=8.8888$...
$10 x-x=[8.8888 \ldots . .]-.[0.8888 . .$.
$9 x=8$
$X=\frac{8}{9}$
b) Change the recurring fraction 9. 878787.. into a fraction Let $\mathrm{x}=9.878787$..
$100 x=987.8787$...
100x-x=[987.8787...] - [9.878787...]
99x=978
X=978/99
Note: Always set the given number as x . Next multiply the given number by $\mathbf{1 0 , 1 0 0}, 100$, in-fact by just any power of 10 that will help you to do away with the recurring part of the fraction after subtraction. Finally always cross check the answer thus obtained in-order to reconfirm.

