Formulae for Mean and Standard Deviation – MEI Board

For a list of numbers	For frequency distributions
Mean, $\bar{x} = \dfrac{\sum x}{n}$ (Not given in the formulae booklet)	Mean, $\bar{x} = \dfrac{\sum fx}{\sum f}$ (Not given in the formulae booklet)
$S_{xx} = \sum(x_i - \bar{x})^2$ $= \sum x_i^2 - \dfrac{(\sum x_i)^2}{n}$ $= \sum x_i^2 - n\bar{x}^2$ (Given in the formulae booklet)	$S_{xx} = \sum f x_i^2 - \dfrac{(\sum f x_i)^2}{n}$ $= \sum f x_i^2 - n\,\bar{x}^2$ (Not given in the formulae booklet)
Sample Variance, $s^2 = \dfrac{S_{xx}}{n-1}$ (Given in the formulae booklet) Sample Standard Deviation, $s = \sqrt{\dfrac{S_{xx}}{n-1}}$ (Given in the formulae booklet)	