The weekly salaries of employees at two large electronics companies, A and B, are being compared. The weekly salaries of an employee from company A and an employee from company B are denoted by x and y respectively. A random sample of 50 employees from company A and a random sample of 40 employees from company B give the following summarised data.

$$\Sigma x = 5120$$
 $\Sigma x^2 = 531\,000$ $\Sigma y = 3760$ $\Sigma y^2 = 375\,135$

- (i) The population mean salaries of employees from companies A and B are denoted by μ_A and μ_B respectively. Using a 5% significance level, test the null hypothesis $\mu_A = \mu_B$ against the alternative hypothesis $\mu_A \neq \mu_B$.
- (ii) State, with a reason, whether any assumptions about the distributions of employees' salaries are needed for the test in part (i). [1]