6 Students of the same age from two schools, school *A* and school *B*, take a large number of quizzes throughout the year and are each awarded a mark out of 1000. The marks of 123 students in school *A* and 147 students in school *B* are ranked from lowest (rank 1) to highest (rank 270). The sum of the ranks of the students from school *A* is 15 355.

(a) Carry out a Wilcoxon rank-sum test at the 5% significance level to investigate whether there is a difference in average marks between the students in school *A* and school *B*. [6]

(b) State an assumption that is required for the Wilcoxon rank-sum test to be valid. [1]

Additional page

If you use the following page to complete the answer to any question, the question number must be clearly shown.