A college uses two assessments, *X* and *Y*, when interviewing applicants for research posts at the college. These assessments have been used for a large number of applicants this year.

The scores for a random sample of 9 applicants who took assessment *X* are as follows.

The scores for a random sample of 10 applicants who took assessment *Y* are as follows.

The interviewer believes that the population median score from assessment X is lower than the population median score from assessment Y.

Carry out a Wilcoxon rank-sum test, at the 1% significance level, to test whether the interviewer's belief is supported by the data. [7]