

11+ Standardisation Report – October 2018

Each pupil's raw scores were standardised ($\mu=100$, $\sigma=15$). The values used, in 2018, are presented in the table below.

$n=5637$

2018 (2019 entry)	Mean (μ)	Standard Deviation (σ)
English	37.64485	8.805776
Maths	24.78872	12.16780

As in previous years a statistical test was used to assess whether age adjustment was necessary to take account of any apparent bias against younger candidates.

This year, the t -test was statistically significant for both English and Maths and the corresponding age adjustment factors were calculated.

2018 (2019 entry)	Age adjustment
English	0.0126244
Maths	0.0068468

In each case the calculation proceeds as follows:

$$\text{Standardised score} = (((\text{raw score} - \mu) \div \sigma) \times 15) + 100$$

$$\text{Total score} = 1.5 \times$$

$$[(\text{standardised Mathematics} + \text{“days younger”} \times \text{Maths age adjustment}) + (\text{standardised English} + \text{“days younger”} \times \text{English age adjustment})]$$

where “days younger” is calculated as $d-o-b$ minus 01/09/2007.

Thus a candidate, born on 01/09/2007, with average marks on each paper will obtain a total of 300, comprising the results in the two papers weighted 1:1.